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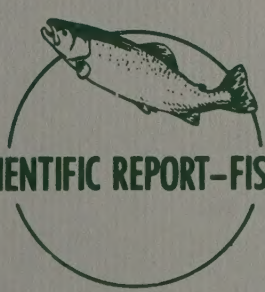

SPECIAL SCIENTIFIC REPORT–FISHERIES No. 455

UNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE

UNITED STATES DEPARTMENT OF THE INTERIOR, Stewart L. Udall, *Secretary*
FISH AND WILDLIFE SERVICE, Clarence F. Pautzke, *Commissioner*
BUREAU OF COMMERCIAL FISHERIES, Donald L. McKernan, *Director*

COUNTS OF RED-TIDE ORGANISMS, Gymnodinium breve, AND ASSOCIATED OCEANOGRAPHIC DATA FROM FLORIDA WEST COAST, 1960-61

by

Alexander Dragovich, John H. Finucane, John A. Kelly, Jr.,
and
Billie Z. May

United States Fish and Wildlife Service
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COUNTS OF RED-TIDE ORGANISMS, *Gymnodinium breve*, AND ASSOCIATED OCEANOGRAPHIC DATA FROM FLORIDA WEST COAST, 1960-61

by

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ABSTRACT

This report presents counts of the red-tide organisms, *Gymnodinium breve*, and associated oceanographic data for the period from January 1960 to August 1961. Methods of collecting and analyzing samples are mentioned. Data on water temperature, water transparency, light transmission, cloud type, cloud amount, visibility, sea direction, sea state, wind direction, wind force, salinity, inorganic phosphate phosphorus, total phosphate phosphorus, nitrate-nitrite nitrogen, ammonia, total organic and inorganic nitrogen, silicon, calcium, and alkalinity are presented. These data were collected as a part of a study on the distribution and incidence of *G. breve* and related ecological conditions and extend the records reported in a previous paper from 1959 to 1961.

INTRODUCTION

This is the sixth report on field studies of the red tide in Florida's coastal waters by the Bureau of Commercial Fisheries. It presents counts of the red-tide organism, *Gymnodinium breve* Davis, with associated oceanographic data. In our previous investigations (Finucane and Dragovich, 1959; Dragovich, Finucane, and May, 1961), copper studies were made because of high toxicity of this element to laboratory cultures of *G. breve*. A preliminary analysis of copper data has shown that the natural levels of this constituent in Tampa Bay and adjacent neritic waters are not immediately toxic to *G. breve*. Thus, the collection of water samples for copper determinations was discontinued. Calcium, silicon, alkalinity, ammonia, total organic and inorganic nitrogen, and light transmission measurements were added as new parameters to this study. The first two reports were by Graham, Amison, and Marvin (1954) and Marvin (1955a). A brief history and objectives of the red-tide studies with the counts of *G. breve* and associated oceanographic data for the period 1954-57 were presented in the third report (Finucane and Dragovich, 1959). The fourth report (Dragovich, Finucane, and May, 1961) covers the period from July 1957 through December 1959 and also presents the counts of *G. breve* with associated oceanographic data.

The fifth report (Dragovich, 1961) presents counts of *G. breve* with associated plankton and hydrological data at Naples, Florida, for the period from March 1956 to August 1957.

Hutton (1956) listed most of the earlier publications pertaining to the Florida red tide. More recent contributions dealing with the Florida red tide were made by Wilson and Ray (1956), Bein (1957), Ray and Wilson (1957), Collier (1958), Rounsefell and Evans (1958), Ingle, Hutton, Shafer, and Goss (1959), Aldrich and Wilson (1960), Hutton (1960), Dragovich and May (1962) and Dragovich (1963).

This report presents the continuation of the data from part II by Dragovich, Finucane, and May (1961). The data in this report were obtained from the 25 regular stations located in Tampa Bay and adjacent neritic waters extending to 40 miles offshore distance (figs. 1 and 2). Occasionally two special stations were sampled at 50 and 60 miles offshore distance (figs. 1-2).

During the period of this report two minor outbreaks of red tide occurred in our investigation area. The first was observed in March 1960 and the second during July and August of the same year. Both of these outbreaks were confined mainly to an area from the mouth of Tampa Bay to 35 miles offshore, and little fish mortality was observed.

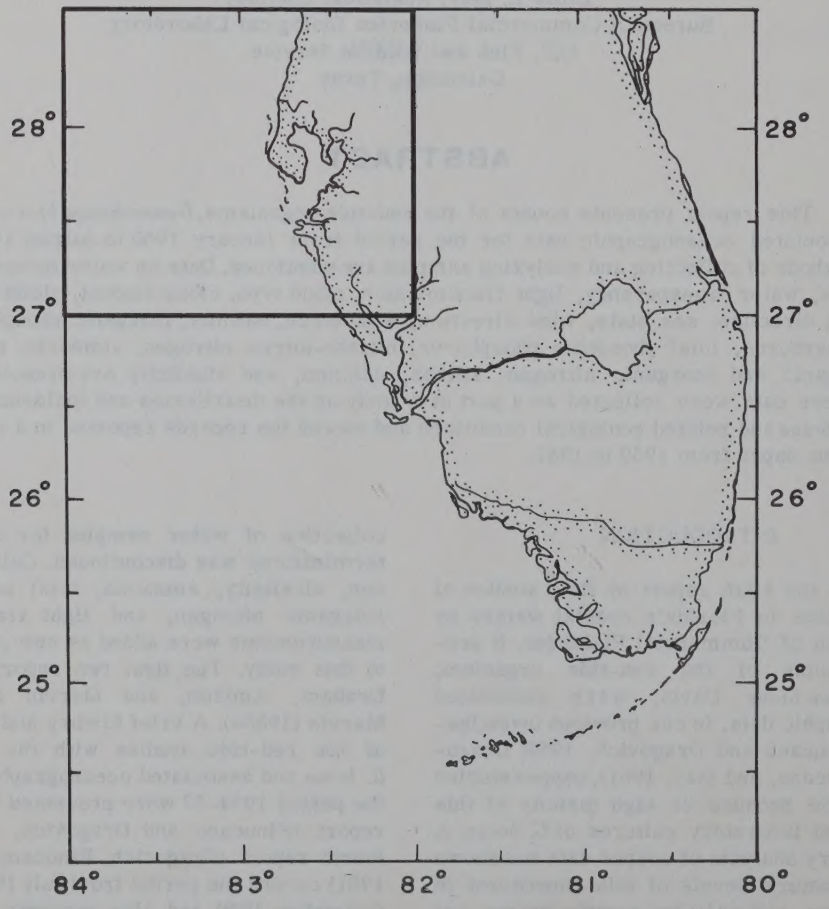

Figure 1.--Index map of southern Florida with outline of investigation area.

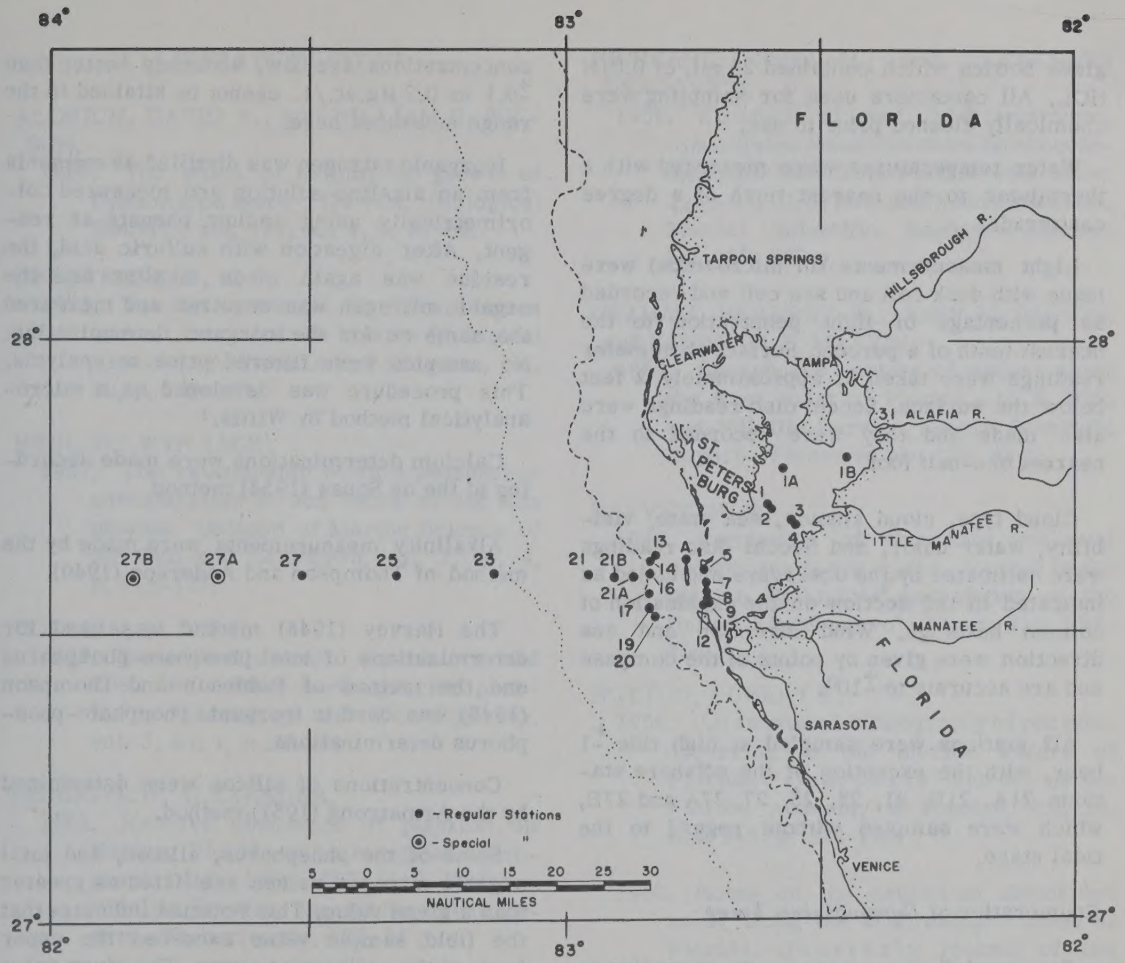

Figure 2.--Tampa Bay area showing station locations.

METHODS

Sampling Techniques

The entire sampling was conducted from the research vessel *Kingfish*, a 43-foot, twin-screw, diesel cruiser, equipped with an echo sounder and radar.

Water samples were collected with modified Van Dorn sampling bottles (Van Dorn, 1957) from three or four evenly spaced depths, including surface and bottom. Samples for the determination of ammonia and total and inorganic nitrogen were collected at selected stations and from the surface only. Samples for total phosphate-phosphorus, inorganic phosphate-phosphorus, nitrate-nitrite nitrogen, and ammonia were immediately transferred from the sampling containers into 200-mm. culture vials which were capped with polyethylene-lined screw caps and quickly frozen. Samples for the determination of total inorganic and organic nitrogen were transferred into 250-ml. glass containers, quickly frozen and also capped with polyethylene-lined screw caps. Samples for the determination of calcium were transferred into 250-ml. glass-stoppered bottles. Samples for the determination of silicon were transferred into 125-ml. polyethylene containers with polyethylene screw caps. Samples for salinity determinations were transferred into 4-ounce glass prescription bottles and for alkalinity measurements 100-ml. samples were transferred into 250-ml.

glass bottles which contained 25 ml. of 0.01N HCL. All containers used for sampling were chemically cleaned prior to use.

Water temperatures were measured with a thermistor to the nearest tenth of a degree centigrade.

Light measurements (in microamps) were made with deck cell and sea cell and recorded as percentage of light penetration to the nearest tenth of a percent. Surface photometer readings were taken at approximately 2 feet below the surface. Secchi disc readings were also made and they were recorded to the nearest one-half foot.

Cloud type, cloud amount, sea state, visibility, water color, and Secchi disc readings were estimated by the observers and coded as indicated in the section on the explanation of column headings. Wind direction and sea direction were given by points of the compass and are accurate to $\pm 10^{o}$.

All stations were sampled at high tide ± 1 hour, with the exception of the offshore stations 21A, 21B, 21, 23, 25, 27, 27A and 27B, which were sampled without regard to the tidal stage.

Enumeration of *Gymnodinium breve*

Counts of *G. breve* were made according to the enumeration method decribed by Dragovich, Finucane, and May (1961).

Chemical Analysis

Salinities were determined by the Mohr-Knudsen method (Knudsen, 1901).

Nitrate-nitrite nitrogen determinations were made by the method of Zwicker and Robinson (1944) as modified by Marvin (1955b). Due to the formation of color in the blanks employed in the NO_3 -NO_2 analysis, the accuracy of the method for the low ranges encountered was found to be $\pm 0.2 \mu$g.at./1. of NO_3-NO_2-N.

Ammonia determinations were made according to the Wirth and Robinson (1933) method. Since a number of substances interfere with the Nessler reaction when ammonia concentrations are low, accuracy better than ± 0.1 to 0.2μg.at./1. cannot be attained in the range measured here.

Inorganic nitrogen was distilled as ammonia from an alkaline solution and measured colorimetrically using sodium phenate as reagent. After digestion with sulfuric acid, the residue was again made alkaline and the organic nitrogen was acquired and measured the same as for the inorganic determination. No samples were filtered prior to analysis. This procedure was developed as a micro-analytical method by Willis.[1]

Calcium determinations were made according to the de Sousa (1954) method.

Alkalinity measurements were made by the method of Thompson and Anderson (1940).

The Harvey (1948) method was used for determinations of total phosphate-phosphorus and the method of Robinson and Thompson (1948) was used in inorganic phosphate-phosphorus determinations.

Concentrations of silicon were determined by the Armstrong (1951) method.

Some of the phosphorus, silicon, and total organic nitrogen values are listed as greater than a given value. This notation indicates that the field sample value exceeded the upper limit of the calibration curve. The given value represents the upper limit of the particular calibration curve established at the time of the determination.

None of the samples were filtered prior to the chemical analyses.

ACKNOWLEDGMENT

McKinley W. Jambor and Lucius Johnson assisted in the enumeration of *G. breve* and chemical analyses respectively.

Robert M. Ingle and Robert F. Hutton from the Florida State Board of Conservation cooperated by exchange of red tide information.

[1]David C. Willis. 1960. A microanalytical method for the analysis of total nitrogen in sea water. (Typewritten manuscript on file at the University of Tampa.)

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STATION DATA

EXPLANATION OF COLUMN HEADINGS

Date	Month, day, and year are given
Time	Eastern standard time
Depth	Depth is coded as indicated below:

For stations 1A through 21B:

Code	
S	Surface
M	Middepth
B	Bottom

For stations from 21 through 27B:

1.	Surface
2.	First intermediate
3.	Second intermediate
4.	Bottom

C	Concentrated sample
M	Mixed sample
^{o}C	Water temperature recorded to the nearest 10th of a degree centigrade
Sal	Salinity, parts per thousand $^{o}/_{oo}$
Ca	Calcium, mg.at./l.
Alk	Total alkalinity, expressed in mg.at. H+ per liter
Si	Silicon, μg.at./l.
NO_3-NO_2-N	Nitrogen, μg.at. NO_3-NO_2-N/l.
PO_4	Phosphate
In.	Inorganic phosphate, μg.at.PO_4-P/l.
Tot.	Total phosphate, μg.at.PO_4-P/l.
Light Transm.	Light transmission expressed in percent, to the nearest tenth

Sea State

Sea state is coded as indicated below:

Code	Approximate height in feet	Description
0		Calm
1	Less than 1	Smooth
2	1 to 3	Slight
3	3 to 5	Moderate
4	5 to 8	Rough
5	8 to 12	Very rough

Wind Amt.

Wind speed is given in knots according to the Beaufort scale

Sea Amt.

page 187, H.O. Pub. No. 607, 1955

Wind Dir. and Sea Dir.

Wind direction and sea direction given by points of the compass

Surface Nitrogen values:

NH_3 Ammonia, μg.at./l.

Org. Total organic nitrogen, μg.at./l.

In. Total inorganic nitrogen, μg.at./l.

Vi

Visibility is coded as indicated below:

Code		
0	Dense fog	50 yards
1	Thick fog	200 yards
2	Fog	400 yards
3	Moderate fog	1,000 yards
4	Thin fog or mist	1 mile
5	Visibility poor	2 miles
6	Visibility moderate	5 miles
7	Visibility good	10 miles
8	Visibility very good	30 miles
9	Visibility excellent over	30 miles

CA

Cloud amount is coded as indicated below:

Code	Fraction of sky obscured
0	0
1	Less than 1/10 and 1/10
2	2/10 and 3/10
3	4/10
4	5/10
5	6/10
6	7/10 and 8/10
7	9/10 and 9/10 plus
8	10/10

CT — Cloud type is coded as indicated below:

Code	
0	Stratus or Fractostratus
1	Cirrus
2	Cirrostratus
3	Cirrocumulus
4	Altocumulus
5	Altostratus
6	Stratocumulus
7	Nimbostratus
8	Cumulus or Fractocumulus
9	Cumulonimbus

WC — Water color is coded as indicated below:

Code	
Br.	Brown
L. Br.	Light Brown
D. Br.	Dark brown
R. Br.	Reddish brown
Br. G.	Brownish green
G.	Green
L. G.	Light green
D. G.	Dark green
M. G.	Milky green
B. G.	Blue green
B.	Blue

Transp. — Water transparency in feet at which Secchi disc is visible, recorded to the nearest one-foot.

STATION 1A — Depth of 39 feet — Lat. 27°47.6' N. — Long. 83°34.4' W.

Date	Time	Depth	Gymnodinium breve C	Gymnodinium breve M	°C.	Sal.	Ca	Alk	Si	Phosphorus PO_4 In	Phosphorus PO_4 Tot	Nitrogen NO_3 NO_2-N	Nitrogen NH_3	Nitrogen Org	Water In	Light transm	Water Transp	Color	Sky CA	Sky CT	Sky Vi	Wind Amt	Wind Dir	Sea Amt	Sea Dir
1960																									
1/26	1526	S	0	-	13.4	24.09	-	-	-	18.0	22.8	0.2	-	-	-	-	6	D.G.	1	-	-	0	-	0	
-	-	M	0	-	14.0	24.63	-	-	-	20.5	23.1	0.2													
-	-	B	0	-	13.0	24.70	-	-	-	19.2	21.7	0.3													
2/16	1543	S	0	-	17.2	23.48	-	-	-	23.6	23.6	0.2	-	-	-	-	10	D.G.	7	1	-	2	NNE		
-	-	M	0	-	15.9	23.75	-	-	-	23.9	24.0	0.2													
-	-	B	0	-	15.9	23.75	-	-	-	24.3	27.4	0.5													
3/29	1514	S	0	-	21.2	15.33	-	-	-	22.2	28.3	0.2	-	-	-	-	4	D.Br.	2	6	-	5	SW	2	SW
-	-	M	0	-	19.8	17.20	-	-	-	22.5	24.6	0.2													
-	-	B	0	-	19.8	17.74	-	-	-	23.0	25.0	0.2													
4/14	1539	S	0	-	21.7	17.30	5.12	1.80	7.5	-	23.7	0.2	14.1	-	-	-	4½	Br.G.	6	8	7	3	E	1	NE
-	-	M	0	-	20.7	17.88	5.33	1.83	7.0	-	22.5	0.2													
-	-	B	0	-	20.6	18.01	5.41	1.84	6.6	-	25.6	0.4													
5/10	1337	S	0	-	24.2	22.61	6.92	2.02	1.8	-	22.6	0.4	10.6	-	-	-	4	D.G.	2	8	8	4	W	2	W
-	-	M	0	-	24.1	22.68	6.79	2.05	1.6	-	21.1	0.5													
-	-	B	0	-	24.1	22.61	6.79	2.01	1.8	-	22.0	0.2													
6/22	1254	S	0	-	28.2	24.81	7.65	1.98	0.8	-	22.7	0.5	-	-	-	-	8	D.G.	7	8	8	0	-	0	
-	-	M	0	-	27.8	25.35	7.85	2.06	2.1	-	24.8	0.1													
-	-	B	0	-	27.8	25.37	7.75	2.09	2.6	-	28.0	0.2													
7/19	1109	S	0	-	30.7	25.23	7.80	2.13	6.3	-	20.9	0.0	7.1	-	-	-	9	G.	4	4,8	7	2	S	1	SW
-	-	M	0	-	30.1	25.41	7.85	2.17	9.0	-	21.0	0.1													
-	-	B	0	-	30.1	25.52	7.80	2.12	10.0	-	22.7	0.0													
8/18	1131	S	0	-	29.9	15.05	4.80	1.76	0.8	-	21.1	0.1	7.6	-	-	-	6	Br.	2	8	6	2	NE	2	NE
-	-	M	0	-	29.3	19.22	6.01	2.04	3.3	-	29.0	0.1													
-	-	B	0	-	30.0	24.49	7.53	2.12	14.9	-	24.2	0.1													
9/20	1401	S	0	-	28.8	15.14	4.80	1.83	12.9	-	27.9	0.1	30.0	-	-	-	4	D.Br.	2	8	7	1	N	1	N
-	-	M	0	-	27.9	17.38	5.38	1.87	15.7	-	26.7	0.1													
-	-	B	0	-	28.0	19.51	6.03	1.95	15.5	-	26.8	0.1													
10/3	1324	S	0	-	29.1	15.91	4.94	1.25	>21.7	-	>29.0	0.5	10.0	-	-	-	4	Br.	4	8	8	3	NE	1	NE
-	-	M	0	-	28.1	16.64	5.10	1.25	19.6	-	27.6	0.1													
-	-	B	0	-	28.0	16.92	5.20	1.25	18.4	-	>29.0	0.1													
11/19	1550	S	0	-	24.0	21.08	6.55	2.16	2.4	-	21.1	0.3	1.8	-	-	25.7	-	D.G.	4	1,2,8	7	2	NE	1	NW
-	-	M	0	-	23.1	22.81	7.10	2.16	7.8	-	21.6	0.1	-	-	-	0.1									
-	-	B	0	-	23.0	23.22	7.30	2.19	9.4	-	19.2	0.2	-	-	-	0.0									
12/19	1708	S	0	-	13.6	24.49	7.58	2.24	4.7	-	23.5	0.3	4.7	-	-	30.0	-	D.G.	1	8	6	2	NW	1	N
-	-	M	0	-	13.9	25.41	7.94	2.29	4.6	-	21.1	0.3	-	-	-	0.3									
-	-	B	0	-	14.7	25.41	7.70	2.24	4.4	-	21.9	0.4	-	-	-	0.0									
1961																									
1/31	1546	S	0	-	14.3	25.64	8.05	2.16	2.7	-	24.5	0.3	1.2	20.9	6.7	22.8	-	D.G.	6	2,8	7	0	-	0	
-	-	M	0	-	14.5	26.08	8.10	2.19	3.2	-	22.4	0.1	-	-	-	8.9									
-	-	B	0	-	14.5	25.86	8.00	2.19	3.6	-	23.5	0.2	-	-	-	0.7									
2/27	1428	S	0	-	21.0	25.25	8.10	2.14	5.7	-	23.0	0.2	-	24.0	5.6	50.0	9½	D.G.	0	-	7	2	NW	1	NW
-	-	M	0	-	20.0	25.43	7.90	2.12	8.2	-	20.0	0.2	-	-	-	6.6									
-	-	B	0	-	19.7	25.46	7.88	2.19	9.3	-	20.0	0.1	-	-	-	< 0.1									
3/7	1648	S	0	-	23.4	25.82	8.10	2.16	5.5	-	>33.3	0.2	-	25.3	2.6	44.4	7½	D.G.	5	1,2,8	7	3	SW	2	SW
-	-	M	0	-	23.1	25.86	8.08	2.21	5.4	-	33.3	0.2	-	-	-	1.2									
-	-	B	0	-	22.7	25.86	8.10	2.16	4.9	-	>33.3	0.3	-	-	-	<0.1									
5/10	1201	S	0	-	25.9	27.27	8.65	2.21	1.7	-	>31.8	0.1	-	25.9	2.6	25.0	5	D.G.	6	8	7	6	WNW	2	WNW
-	-	M	0	-	25.8	27.27	8.60	2.19	1.7	-	30.9	0.1	-	-	-	1.5									
-	-	B	0	-	25.8	27.27	8.60	2.19	1.6	-	31.6	0.0	-	-	-	<0.1									
6/8	1057	S	0	-	28.6	28.60	8.93	2.35	10.7	-	24.2	0.3	0.0	>44.7	6.9	34.6	5	D.G.	2	1,8	7	2	SE	1	
-	-	M	0	-	27.5	28.77	9.02	2.37	11.7	-	27.4	0.2	-	-	-	<0.1									
-	-	B	0	-	27.6	28.77	8.94	2.37	12.9	-	25.5	1.0	-	-	-	0.0									
7/13	1407	S	0	-	31.5	29.20	9.30	2.38	1.5	-	26.9	0.6	1.2	43.4	3.6	48.1	5	D.G.	6	1,6,8	7	1	NW	1	SE
-	-	M	0	-	29.6	29.54	9.42	2.42	4.4	-	26.2	0.4	-	-	-	<0.1									
-	-	B	0	-	29.4	29.67	9.50	2.44	5.9	-	24.3	0.1	-	-	-	0.0									

STATION 1B — Depth of 39 feet — Lat. 27°48.7' N. — Long. 82°26.8' W.

Date	Time	Depth	Gymnodinium breve C	Gymnodinium breve M	°C	Sal	Ca	Alk	Si	Phosphorus PO_4 In	Phosphorus PO_4 Tot	Nitrogen NO_3-NO_2-N	Nitrogen NH_3	Nitrogen Org	Nitrogen In	Light transm	Water Transp	Color	Sky CA	Sky CT	Sky Vi	Wind Amt	Wind Dir	Sea Amt	Sea Dir
1960																									
1/26	1454	S	0	-	13.8	22.97	-	-	-	23.9	28.6	1.0	-	-	-	-	7	D.G.	-	-	-	2	NE	0	
-	-	M	0	-	12.8	24.00	-	-	-	21.9	22.3	0.6													
-	-	B	0	-	13.1	24.36	-	-	-	21.2	23.2	0.4													
2/16	1614	S	0	-	15.7	22.09	-	-	-	23.0	23.2	1.0	-	-	-	-	7½	D.G.	8	1	-	0	-	0	
-	-	M	0	-	15.7	23.06	-	-	-	21.6	25.8	0.4													
-	-	B	0	-	15.8	23.39	-	-	-	19.6	25.2	0.5													
3/29	1442	S	0	-	21.0	12.70	-	-	-	24.6	24.7	1.7	-	-	-	-	5	D.Br.	3	6	-	4	SW	2	SW
-	-	M	0	-	18.8	15.93	-	-	-	22.3	34.7	0.8													
-	-	B	0	-	18.7	16.83	-	-	-	24.0	32.3	0.4													
4/14	1509	S	0	-	21.6	16.76	5.04	1.78	9.2	-	24.0	0.4	17.1	-	-	-	12	Br.G.	6	8	7	3	E	1	NE
-	-	M	0	-	21.0	17.30	5.18	1.84	9.0	-	24.2	0.3													
-	-	B	0	-	20.8	19.49	5.72	1.92	6.5	-	28.7	0.2													
5/10	1301	S	0	-	24.0	21.69	6.67	2.10	4.8	-	21.9	-	14.1	-	-	-	5	Br.G.	2	8	8	4	SW	2	W
-	-	M	0	-	24.0	21.94	6.76	2.00	4.2	-	23.3	0.5													
-	-	B	0	-	24.5	23.08	6.98	2.02	6.5	-	21.6	0.5													
6/22	1221	S	0	-	29.6	24.24	7.54	1.99	2.2	-	25.3	0.1	-	-	-	-	4	D.G.	7	8	8	0	-	0	
-	-	M	0	-	28.0	25.08	7.76	1.98	6.5	-	25.9	0.2													
-	-	B	0	-	28.0	25.66	7.95	2.09	11.1	-	25.3	0.2													
7/19	1037	S	0	-	30.3	23.30	7.22	2.06	11.0	-	25.4	0.0	6.5	-	-	-	8	Br.G.	3	4,8	7	2	S	1	SW
-	-	M	0	-	30.3	24.42	7.60	2.10	9.8	-	22.6	0.1													
-	-	B	0	-	30.4	24.76	7.65	2.08	10.6	-	26.6	0.0													
8/18	1054	S	0	-	29.4	14.60	4.70	1.75	2.9	-	24.4	0.1	8.8	-	-	-	5½	Br.	2	8	6	2	NE	2	NE
-	-	M	0	-	30.0	23.69	7.33	2.11	11.2	-	22.4	0.2													
-	-	B	0	-	30.0	24.24	7.50	2.10	12.5	-	22.9	0.1													
9/20	1322	S	0	-	29.0	13.98	4.36	1.72	9.8	-	27.9	0.1	4.1	-	-	-	5½	R.Br.	2	8	7	2	N	1	N
-	-	M	0	-	27.8	18.78	5.76	1.87	16.4	-	23.6	0.1													
-	-	B	0	-	27.8	17.02	5.30	1.87	12.7	-	24.7	0.1													
10/3	1250	S	0	-	28.5	14.78	4.64	1.22	>21.7	-	28.4	0.2	5.9	-	-	-	4	R.Br.	3	8	8	4	NE	1	NE
-	-	M	0	-	28.4	17.14	5.26	1.31	>21.7	-	>29.0	0.2													
-	-	B	0	-	28.4	19.33	5.94	1.46	19.6	-	27.6	0.1													
11/19	1513	S	0	-	24.0	22.95	7.21	2.15	4.2	-	22.7	0.0	1.8	-	-	26.2	-	D.G.	4	1,2,8	7	2	NE	1	NE
-	-	M	0	-	23.4	23.13	7.21	2.16	8.8	-	24.0	0.0	-	-	-	0.1									
-	-	B	0	-	23.0	23.59	7.34	2.18	11.4	-	22.8	0.1	-	-	-	0.0									
12/19	1634	S	0	-	13.6	25.32	7.88	2.26	2.3	-	27.2	0.1	1.8	-	-	44.8	-	Br.G.	1	8	7	0	-	1	N
-	-	M	0	-	13.6	25.37	8.05	2.24	2.5	-	21.2	0.1	-	-	-	0.8									
-	-	B	0	-	13.8	25.95	8.12	2.27	3.5	-	21.6	0.2	-	-	-	<0.1									
1961																									
1/31	1512	S	0	-	15.1	24.90	7.86	2.16	2.0	-	26.8	0.1	0.0	30.9	2.9	37.5	-	D.G.	3	2,8	7	2	NW	1	NW
-	-	M	0	-	14.3	25.91	7.99	2.21	3.5	-	24.9	0.3	-	-	-	2.7									
-	-	B	0	-	14.3	26.17	8.17	2.22	3.2	-	25.2	0.3	-	-	-	0.2									
2/27	1353	S	0	-	20.7	23.37	7.57	2.06	5.8	-	22.2	0.2	-	>28.6	0.9	35.7	3	Br.G.	0	-	7	1	E	1	E
-	-	M	0	-	19.6	25.28	7.98	2.19	8.7	-	22.4	0.2	-	-	-	1.8									
-	-	B	0	-	20.1	25.82	8.15	2.25	12.7	-	23.6	0.2	-	-	-	0.0									
3/7	1616	S	0	-	23.3	24.22	7.75	2.08	1.3	-	>33.3	0.2	-	>28.6	2.0	31.5	5	D.G.	5	1,2,8	7	4	SW	2	SW
-	-	M	0	-	23.0	24.96	7.86	2.10	5.6	-	>33.3	0.2	-	-	-	0.7									
-	-	B	0	-	22.4	25.46	8.04	2.16	7.4	-	>33.3	0.2	-	-	-	<0.1									
5/10	1129	S	0	-	25.9	26.47	8.33	2.05	0.5	-	>31.8	0.0	2.4	31.4	5.1	20.8	10	D.G.	6	8	7	6	WNW	2	WNW
-	-	M	0	-	25.9	26.47	8.41	2.06	0.7	-	>31.8	0.0	-	-	-	1.7									
-	-	B	0	-	25.8	26.47	8.39	2.19	1.1	-	25.4	0.0	-	-	-	0.1									
6/8	1023	S	0	-	28.6	27.61	8.70	2.21	1.7	-	26.0	0.1	-	>44.7	4.4	33.3	4	D.G.	2	1,2,8	7	2	SE	1	SE
-	-	M	0	-	27.7	28.21	8.90	2.27	3.1	-	28.0	1.3	-	-	-	0.5									
-	-	B	0	-	27.6	28.60	8.98	2.33	11.0	-	25.5	0.2	-	-	-	0.0									
7/13	1334	S	0	-	31.0	28.60	9.15	2.26	2.8	-	24.3	0.1	2.4	>44.7	6.9	36.0	5	D.G.	6	4,6,8	8	1	SE	1	SE
-	-	M	0	-	30.0	28.91	9.25	2.33	3.6	-	28.6	0.6	-	-	-	0.2									
-	-	B	0	-	29.9	29.40	9.35	2.37	7.1	-	27.7	0.2	-	-	-	0.0									

STATION 1 — Depth of 26 feet — Lat. 27°43.1' N. — Long. 86°36.5' W.

Date	Time	Depth	Gymnodinium breve C	Gymnodinium breve M	°C	Sal	Ca	Alk	Si	Phosphorus PO_4 In	Phosphorus PO_4 Tot	Nitrogen NO_3-NO_2-N	Nitrogen NH_3	Nitrogen Org	Water In	Light transm	Water Transp	Color	Sky CA	Sky CT	Sky Vi	Wind Amt	Wind Dir	Sea Amt	Sea Dir
1960																									
1/13	1430	S	0	-	20.8	25.01	-	-	-	19.6	19.6	0.1	-	-	-	-	6	Br.G.	2	-	-	2	WSW	0	
-	-	M	0	-	20.4	25.57	-	-	-	18.7	20.0	0.2													
-	-	B	0	-	20.5	25.57	-	-	-	18.7	19.4	0.1													
2/16	1520	S	0	-	15.9	25.12	-	-	-	19.5	23.5	0.4	-	-	-	-	8	D.C.	8	1	-	1	E	0	
-	-	M	P	0.0	15.8	25.35	-	-	-	19.2	23.5	0.2													
-	-	B	0	-	16.1	25.48	-	-	-	19.0	22.4	0.2													
3/29	1356	S	0	-	20.8	20.28	-	-	-	22.3	24.8	0.3	-	-	-	-	5	D.Br.	2	6	-	4	SW	2	SW
-	-	M	0	-	20.2	20.46	-	-	-	25.0	25.3	0.3													
-	-	B	0	-	20.0	21.24	-	-	-	22.7	22.7	0.2													
4/14	1425	S	0	-	21.8	21.08	6.32	2.05	0.5	-	21.4	0.0	8.8	-	-	-	5	Br.G.	6	8	7	4	E	1	NE
-	-	M	0	-	21.5	22.00	6.46	2.05	0.6	-	21.2	0.0													
-	-	B	0	-	21.3	22.21	6.67	2.08	0.6	-	20.1	0.1													
5/10	1214	S	0	-	24.3	26.87	8.15	2.18	1.1	-	17.1	0.3	2.9	-	-	-	4½	L.G.	3	8	8	4	W	2	W
-	-	M	0	-	24.2	26.94	8.05	2.21	1.2	-	16.8	0.2													
-	-	B	0	-	24.0	27.20	8.32	2.20	0.8	-	16.8	0.2													
6/22	1135	S	0	-	28.3	27.97	8.50	2.12	2.2	-	18.6	0.1	-	-	-	-	6½	D.G.	7	8	7	0	-	0	
-	-	M	0	-	28.1	28.19	8.60	2.13	2.0	-	17.4	0.1													
-	-	B	0	-	28.0	28.19	8.60	2.18	2.0	-	18.1	0.2													
7/19	0950	S	0	-	30.4	28.30	8.60	2.21	5.0	-	18.3	0.0	3.5	-	-	-	9	D.G.	3	4,8	7	1	S	1	SW
-	-	M	0	-	30.2	28.31	8.65	2.24	4.9	-	17.7	0.0													
-	-	B	0	-	30.2	28.35	8.75	2.24	5.5	-	16.2	0.0													
8/18	1006	S	0	-	29.4	18.28	5.67	1.89	0.8	-	25.2	0.1	5.3	-	-	-	6	Br.G.	1	8	6	3	NE	2	NE
-	-	M	0	-	29.3	19.00	5.88	1.92	0.7	-	21.8	0.1													
-	-	B	0	-	29.9	25.37	7.83	2.12	11.8	-	20.3	0.2													
9/20	1234	S	0	-	28.6	18.60	5.62	1.90	8.9	-	23.9	0.1	8.8	-	-	-	5	R.Br.	2	4,8	7	3	N	2	N
-	-	M	0	-	28.0	19.00	5.75	1.90	7.6	-	25.6	0.0													
-	-	B	0	-	28.1	19.13	5.83	1.93	6.4	-	23.8	0.0													
10/3	1205	S	0	-	28.2	20.55	6.40	1.57	6.7	-	24.1	0.1	1.8	-	-	-	5	D.G.	3	8	8	4	NE	2	NE
-	-	M	0	-	28.2	20.90	6.36	1.62	5.6	-	28.1	0.0													
-	-	B	0	-	28.1	21.35	6.50	1.62	4.3	-	27.2	0.3													
11/19	1422	S	0	-	24.0	24.02	7.50	2.24	3.0	-	20.1	0.1	8.2	-	-	30.4	-	Br.G.	2	1,2,8	7	2	E	1	NE
-	-	M	0	-	23.7	24.52	7.62	2.22	3.5	-	22.2	0.2	-	-	-	1.1									
-	-	B	0	-	23.5	24.76	7.73	2.22	3.8	-	20.4	0.0	-	-	-	<0.1									
12/19	1540	S	0	-	13.7	26.35	8.12	2.29	2.3	-	19.6	0.3	1.8	-	-	42.7	-	D.G.	1	8	7	0	-	1	N
-	-	M	0	-	13.7	26.53	8.26	2.30	2.2	-	20.5	0.2	-	-	-	1.7									
-	-	B	0	-	13.7	26.65	8.24	2.30	2.6	-	20.7	0.2	-	-	-	0.5									
1961																									
1/31	1427	S	0	-	14.5	27.07	8.23	2.30	2.6	-	23.1	0.1	-	19.7	0.4	50.0	-	D.G.	3	2,8	7	1	NW	1	NE
-	-	M	0	-	14.5	27.32	8.40	2.25	4.0	-	24.6	0.2	-	-	-	9.7									
-	-	B	0	-	14.5	27.29	8.32	2.25	2.1	-	24.1	0.1	-	-	-	2.2									
2/27	1310	S	0	-	20.4	26.38	8.20	2.13	4.2	-	-	0.2	-	25.9	3.1	54.8	9	D.G.	0	-	7	1	E	1	E
-	-	M	0	-	19.8	26.31	8.21	2.10	3.6	-	22.9	0.2	-	-	-	10.7									
-	-	B	0	-	19.8	26.35	8.30	2.19	4.7	-	23.4	0.6	-	-	-	0.5									
3/7	1532	S	0	-	23.8	27.95	8.60	2.28	0.5	-	27.5	0.1	-	22.1	0.4	52.9	5½	D.G.	5	1,2,8	7	5	SW	2	SW
-	-	M	0	-	23.6	28.22	8.75	2.30	1.2	-	26.3	0.3	-	-	-	1.4									
-	-	B	0	-	23.7	27.92	8.60	2.26	0.7	-	27.2	1.1	-	-	-	0.3									
5/10	1046	S	0	-	25.6	30.03	9.50	2.28	2.5	-	25.1	0.1	-	19.3	1.9	46.3	10	D.G.	6	8	7	5	WNW	2	WNW
-	-	M	0	-	25.6	30.05	9.36	2.30	1.7	-	25.4	1.0	-	-	-	9.7									
-	-	B	0	-	25.6	29.94	9.30	2.06	1.2	-	25.7	0.0	-	-	-	1.5									
6/8	0938	S	0	-	28.0	30.84	9.72	2.38	3.3	-	24.1	0.1	-	>44.7	4.6	38.1	10	D.G.	2	1,2,8	7	2	SE	1	SE
-	-	M	0	-	28.0	31.02	9.60	2.38	2.9	-	27.1	1.5	-	-	-	6.6									
-	-	B	0	-	28.0	31.08	9.60	2.37	3.1	-	23.9	0.1	-	-	-	1.4									
7/13	1250	S	0	-	30.8	31.83	10.08	2.42	0.8	-	20.6	0.1	-	>44.6	2.0	39.7	4	Br.G.	5	4,6,8	8	1	SE	1	SE
-	-	M	0	-	31.5	32.00	10.01	2.42	1.0	-	23.2	0.2	-	-	-	0.4									
-	-	B	0	-	31.5	32.05	10.00	2.42	1.1	-	20.8	0.6	-	-	-	<0.1									

STATION 2 — Depth of 15 feet — Lat. 27°42.7' N. — Long. 82°35.8' W.

Date	Time	Depth	Gymnodinium breve C	Gymnodinium breve M	°C	Sal	Ca	Alk	Si	Phosphorus PO_4 In	Phosphorus PO_4 Tot	Nitrogen NO_3 NO_2-N	Nitrogen NH_3	Nitrogen Org	Nitrogen In	Light transm	Water Transp	Color	Sky CA	Sky CT	Sky Vi	Wind Amt	Wind Dir	Sea Amt	Sea Dir
1960																									
1/13	1420	S	-	-	20.2	26.87	-	-	-	18.0	19.1	0.1	-	-	-	-	5¼	Br.G.	-	-	-	2	WSW	0	
-	-	M	-	-	20.1	25.97	-	-	-	18.3	19.1	0.1													
-	-	B	-	-	20.1	25.97	-	-	-	18.3	19.8	0.2													
2/16	1510	S	-	-	15.9	25.46	-	-	-	20.0	21.6	0.4	-	-	-	-	5	D.G.	6	1	-	1	NW	0	
-	-	M	-	-	15.9	25.53	-	-	-	20.5	22.3	0.4													
-	-	B	-	-	16.0	25.62	-	-	-	21.6	22.6	0.7													
3/29	1344	S	-	-	20.2	20.79	-	-	-	21.0	30.0	0.3	-	-	-	-	3	L.Br.	2	6	-	4	SW	2	SW
-	-	M	-	-	20.1	20.79	-	-	-	22.2	24.3	0.3													
-	-	B	-	-	20.1	20.79	-	-	-	22.0	23.2	0.3													
4/14	1408	S	-	-	21.4	23.77	7.07	2.18	0.8	-	19.7	0.2	-	-	-	-	5	Br.G.	6	8	7	4	E	1	NE
-	-	M	-	-	21.3	23.73	7.11	2.25	0.8	-	20.5	0.1													
-	-	B	-	-	21.2	23.73	7.11	2.29	0.9	-	20.5	0.1													
5/10	1156	S	-	-	24.5	27.50	8.38	2.22	1.5	-	15.9	0.2	-	-	-	-	6	G.	3	8	8	4	W	2	W
-	-	M	-	-	24.4	27.52	8.49	2.24	1.6	-	15.9	0.2													
-	-	B	-	-	24.4	27.57	8.38	2.24	1.6	-	16.1	0.3													
6/22	1123	S	-	-	28.1	28.55	8.66	2.17	2.3	-	16.8	0.2	-	-	-	-	6	D.G.	7	6,8	7	1	N	0	
-	-	M	-	-	28.0	28.82	8.74	2.19	2.9	-	16.7	0.1													
-	-	B	-	-	28.0	28.82	8.80	2.19	3.0	-	18.1	0.1													
7/19	0932	S	-	-	30.6	28.59	8.75	2.24	5.8	-	18.7	0.0	-	-	-	-	8	D.G.	3	4,8	7	1	SW	1	SW
-	-	M	-	-	30.6	28.75	8.75	2.25	6.3	-	16.4	0.0													
-	-	B	-	-	30.6	28.93	8.82	2.26	6.7	-	16.3														
8/18	0957	S	-	-	29.2	19.36	6.15	1.93	2.1	-	23.1	0.2	-	-	-	-	7	Br.G.	1	8	6	4	NE	2	NE
-	-	M	-	-	29.2	19.69	6.10	1.97	0.9	-	25.2	0.1													
-	-	B	-	-	29.9	25.72	7.84	2.12	10.8	-	18.9	0.1													
9/20	1224	S	-	-	28.4	17.23	5.35	1.83	9.0	-	24.2	0.0	-	-	-	-	7	R.Br.	2,7	4,8	7	3	N	2	N
-	-	M	-	-	27.9	20.03	6.20	2.00	8.5	-	27.4	0.8													
-	-	B	-	-	27.9	20.82	6.35	2.01	9.0	-	24.4	0.2													
10/3	1152	S	-	-	28.5	20.44	6.34	1.55	10.3	-	26.6	0.1	-	-	-	-	4	Br.G.	3	8	8	4	NE	2	NE
-	-	M	-	-	28.3	20.90	6.44	1.72	11.2	-	22.0	0.1													
-	-	B	-	-	28.3	20.95	6.40	1.83	11.3	-	>29.0	1.3													
11/19	1410	S	-	-	24.0	24.78	7.65	2.18	4.9	-	21.6	0.1	-	-	-	34.6	-	Br.G.	2	1,2,8	7	1	E	1	NE
-	-	M	-	-	23.7	25.07	7.70	2.24	5.2	-	20.4	0.0	-	-	-	7.7									
-	-	B	-	-	23.5	25.01	7.80	2.41	6.5	-	23.4	-	-	-	-	0.6									
12/19	1537	S	-	-	13.6	26.69	8.21	2.30	2.5	-	20.3	0.2	-	-	-	46.4	-	D.G.	1	8	8	1	NW	1	N
-	-	M	-	-	13.7	26.73	8.32	2.31	4.1	-	21.5	0.2	-	-	-	9.3									
-	-	B	-	-	13.7	26.73	8.30	2.32	2.9	-	21.8	0.2	-	-	-	0.1									
1961																									
1/31	1414	S	-	-	14.3	27.54	8.42	2.34	3.9	-	22.9	0.2	-	-	-	50.0	-	D.G.	2	2,8	7	2	NW	1	NE
-	-	M	-	-	14.3	27.56	8.60	2.34	4.2	-	23.7	0.1	-	-	-	21.7									
-	-	B	-	-	14.3	27.59	8.50	2.32	3.5	-	22.1	0.1	-	-	-	6.2									
2/27	1254	S	-	-	20.4	26.71	8.32	2.15	4.5	-	23.0	0.3	-	-	-	45.2	5	D.G.	0	-	7	2	E	1	E
-	-	M	-	-	20.2	26.67	8.32	2.10	6.2	-	23.6	0.2	-	-	-	13.7									
-	-	B	-	-	20.2	26.67	8.41	2.21	5.3	-	21.5	0.2	-	-	-	2.8									
3/7	1520	S	-	-	23.5	28.40	8.83	2.32	1.2	-	23.7	0.6	-	-	-	55.9	7	D.G.	5	1,2,8	7	4	SW	2	SW
-	-	M	-	-	23.5	28.31	8.90	2.26	0.9	-	23.7	0.1	-	-	-	25.7									
-	-	B	-	-	23.5	28.39	8.90	2.29	0.8	-	26.2	1.2	-	-	-	7.4									
5/10	1031	S	-	-	25.7	30.39	9.34	2.34	2.3	-	25.0	0.0	-	-	-	16.0	4	D.G.	6	8	7	5	WNW	2	WNW
-	-	M	-	-	25.7	30.39	9.40	2.32	2.4	-	26.2	0.0	-	-	-	1.5									
-	-	B	-	-	25.7	30.39	9.40	2.32	2.4	-	24.8	0.2	-	-	-	0.4									
6/8	0923	S	-	-	28.1	31.33	9.75	2.40	3.2	-	23.1	0.5	-	-	-	40.0	7	D.G.	3	1,2,8	7	2	SE	1	NE
-	-	M	-	-	28.0	31.33	9.75	2.40	3.2	-	23.0	0.3	-	-	-	14.4									
-	-	B	-	-	28.0	31.33	9.75	2.40	3.1	-	24.5	0.6	-	-	-	7.5									
7/13	1231	S	-	-	30.6	32.54	10.11	2.44	0.6	-	20.6	0.8	-	-	-	39.2	5	D.G.	5	4,6,8	8	1	SE	1	SE
-	-	M	-	-	30.6	32.54	10.10	2.45	1.1	-	17.0	0.4	-	-	-	3.4									
-	-	B	-	-	30.5	32.54	9.96	2.44	1.2	-	21.2	0.2	-	-	-	1.2									

STATION 3 — Depth of 38 feet — Lat. 27°41.6' N. — Long. 82°33.5' W.

Date	Time	Depth	Gymnodinium breve C	Gymnodinium breve M	°C	Sal	Ca	Alk	Si	Phosphorus PO_4 In	Phosphorus PO_4 Tot	Nitrogen NO_3 NO_2-N	Nitrogen NH_3	Nitrogen Org	Nitrogen In	Light transm	Water Transp	Color	Sky CA	Sky CT	Sky Vi	Wind Amt	Wind Dir	Sea Amt	Sea Dir
1960																									
1/13	1406	S	0	-	20.4	26.80	-	-	-	17.0	17.0	0.2	-	-	-	-	7	D.G.	2	-	-	2	WSW	0	
-	-	M	0	-	20.4	26.87	-	-	-	16.3	17.2	0.2													
-	-	B	0	-	20.4	26.87	-	-	-	16.6	16.7	0.0													
2/16	1455	S	0	-	16.1	26.18	-	-	-	19.6	21.3	0.2	-	-	-	-	6	D.G.	6	1	-	1	NW	0	
-	-	M	0	-	16.1	26.20	-	-	-	20.3	20.8	0.3													
-	-	B	0	-	16.0	26.20	-	-	-	20.5	21.6	0.3													
3/29	1320	S	0	-	20.2	22.90	-	-	-	20.0	21.8	0.1	-	-	-	-	6	Br.G.	2	6	-	4	SW	2	SW
-	-	M	P	0.0	20.0	22.94	-	-	-	21.3	22.7	0.1													
-	-	B	0	-	19.6	22.94	-	-	-	20.7	24.0	0.1													
4/14	1348	S	0	-	21.1	25.28	7.44	2.22	0.6	-	16.2	0.1	7.1	-	-	-	5	L.G.	6	8	7	4	E	1	NE
-	-	M	0	-	21.0	25.46	7.35	-	2.3	-	16.3	0.1													
-	-	B	0	-	20.8	25.73	7.56	2.24	1.2	-	16.4	0.1													
5/10	1135	S	0	-	24.2	27.03	8.28	2.20	0.7	-	16.5	0.4	4.7	-	-	-	7	D.G.	3	8	8	4	W	2	W
-	-	M	0	-	24.2	27.03	8.25	2.18	0.8	-	16.7	0.2													
-	-	B	0	-	24.2	27.11	8.25	2.18	1.3	-	16.8	0.2													
6/22	1058	S	0	-	28.4	28.86	8.76	2.19	2.5	-	17.0	0.1	-	-	-	-	8	D.G.	7	6	7	1	N	0	
-	-	M	0	-	28.2	29.29	8.91	2.24	3.7	-	15.9	0.3													
-	-	B	0	-	28.2	29.29	8.91	2.20	4.0	-	16.0	0.1													
7/19	0914	S	0	-	30.5	29.27	9.04	2.28	4.7	-	16.9	0.0	3.5	-	-	-	8	D.G.	3	4,8	7	1	SW	1	SW
-	-	M	0	-	30.4	29.29	9.20	2.29	4.8	-	16.9	0.0													
-	-	B	0	-	30.8	29.74	9.16	2.27	5.7	-	14.3	0.0													
8/18	0925	S	0	-	29.6	23.15	7.12	2.10	3.2	-	24.5	0.1	7.1	-	-	-	7	Br.G.	1	8	6	4	NE	2	NE
-	-	M	0	-	29.9	26.18	8.12	2.19	9.7	-	18.0	0.2													
-	-	B	0	-	30.0	26.96	8.35	2.21	10.7	-	17.7	0.2													
9/20	1207	S	0	-	28.3	19.36	5.94	1.99	9.9	-	25.3	0.1	4.1	-	-	-	6½	R.Br.	3	3,4,8	6	3	N	2	N
-	-	M	0	-	28.0	23.15	7.03	2.10	5.7	-	24.0	0.0													
-	-	B	0	-	28.0	24.04	7.30	2.08	5.7	-	21.0	0.2													
10/3	1132	S	0	-	28.8	21.98	6.72	1.65	10.4	-	26.5	0.3	7.1	-	-	-	6	Br.G.	3	8	8	4	NE	2	NE
-	-	M	0	-	28.8	23.06	7.00	1.80	7.8	-	23.7	0.1													
-	-	B	0	-	28.8	23.24	7.10	1.80	8.4	-	24.8	0.1													
11/19	1348	S	0	-	23.6	25.72	8.30	2.23	3.9	-	20.2	0.2	23.5	-	-	38.7	-	Br.G.	2	1,2,3,8	7	0	-	1	NE
-	-	M	0	-	23.5	25.77	8.06	2.21	4.7	-	19.2	0.1	-	-	-	0.3									
-	-	B	0	-	23.5	25.84	7.86	2.23	3.6	-	18.2	0.4	-	-	-	<0.1									
12/19	1518	S	0	-	14.0	26.91	8.35	2.32	1.6	-	21.0	0.7	1.2	-	-	42.5	-	D.G.	1	8	8	0	-	1	N
-	-	M	0	-	13.8	27.27	8.50	2.34	1.8	-	19.5	0.2	-	-	-	0.4									
-	-	B	0	-	13.7	27.45	8.56	2.34	2.1	-	20.8	0.1	-	-	-	<0.1									
1961																									
1/31	1355	S	0	-	14.5	27.81	8.44	2.30	2.9	-	21.5	0.1	-	19.0	0.4	42.1	-	D.G.	2	2,8	7	2	NW	1	NE
-	-	M	0	-	14.4	27.99	8.61	2.30	2.2	-	21.9	0.1	-	-	-	7.2									
-	-	B	0	-	14.4	28.13	8.63	2.34	4.5	-	23.6	0.4	-	-	-	0.5									
2/27	1237	S	0	-	19.9	27.59	8.66	2.21	3.4	-	29.0	0.2	-	20.3	0.1	47.7	5	D.G.	0	-	7	3	E	1	E
-	-	M	0	-	19.9	27.70	8.42	2.21	3.3	-	22.5	0.1	-	-	-	1.2									
-	-	B	0	-	19.9	27.86	8.60	2.25	4.2	-	22.7	0.2	-	-	-	<0.1									
3/7	1501	S	0	-	23.0	29.38	9.06	2.32	1.0	-	21.7	0.0	-	16.1	0.9	42.5	7½	D.G.	5	1,2,8	7	5	SW	2	SW
-	-	M	0	-	22.7	29.38	9.14	2.33	0.8	-	23.0	0.0	-	-	-	4.4									
-	-	B	0	-	22.7	29.38	9.10	2.34	1.6	-	21.5	0.1	-	-	-	0.1									
5/10	1009	S	0	-	25.8	30.75	9.35	2.28	3.3	-	22.1	0.0	-	21.1	0.0	57.1	9	D.G.	6	8	7	4	WNW	2	WNW
-	-	M	0	-	25.9	30.86	9.56	2.30	4.5	-	22.1	0.1	-	-	-	3.0									
-	-	B	0	-	25.9	30.82	9.55	2.32	5.5	-	23.2	0.1	-	-	-	2.4									
6/8	0905	S	0	-	27.9	31.91	9.84	2.42	3.4	-	20.4	0.3	-	40.9	2.9	38.2	8	D.G.	3	1,2,8	7	2	SE	1	SE
-	-	M	0	-	27.8	31.98	9.80	2.42	3.8	-	21.5	0.1	-	-	-	3.3									
-	-	B	0	-	27.8	31.91	9.80	2.39	3.3	-	20.8	0.2	-	-	-	0.2									
7/13	1210	S	0	-	30.2	32.50	10.10	2.42	0.6	-	21.4	0.2	1.2	>44.7	3.7	46.4	8	D.G.	4	1,4,8	8	2	SE	1	SE
-	-	M	0	-	30.1	32.72	10.11	2.42	1.1	-	20.2	0.2	-	-	-	3.7									
-	-	B	0	-	30.1	32.72	10.10	2.43	0.9	-	19.3	0.2	-	-	-	0.0									

STATION 4 — Depth of 16 feet — Lat. 27°41.3' N. — Long. 82°32.9' W.

Date	Time	Depth	Gymnodinium breve C	Gymnodinium breve M	°C	Sal	Ca	Alk	Si	Phosphorus PO_4 In	Phosphorus PO_4 Tot	Nitrogen NO_3 NO_2-N	Nitrogen NH_3	Nitrogen Org.	Nitrogen In	Light transm	Water Transp	Color	CA	Sky CT	Sky Vi	Wind Amt	Wind Dir	Sea Amt	Sea Dir
1960																									
1/13	1352	S	-	-	20.6	26.83	-	-	-	16.4	20.6	0.3	-	-	-	-	4	Br.G.	2	-	-	2	SW	0	
-	-	M	-	-	20.7	26.83	-	-	-	16.6	17.5	0.1													
-	-	B	-	-	20.8	26.74	-	-	-	17.4	18.8	0.2													
2/16	1443	S	-	-	15.5	25.53	-	-	-	20.0	21.8	0.2	-	-	-	-	5½	Br.G.	4	1	-	1	NW	0	
-	-	M	-	-	15.5	25.48	-	-	-	20.6	24.2	0.7													
-	-	B	-	-	15.5	25.48	-	-	-	20.3	24.2	0.4													
3/29	1311	S	-	-	20.3	22.36	-	-	-	21.8	23.5	0.2	-	-	-	-	4	Br.G.	3	6	-	2	SW	2	SW
-	-	M	-	-	20.2	22.36	-	-	-	21.3	22.3	0.2													
-	-	B	-	-	20.2	22.57	-	-	-	21.8	23.2	0.1													
4/14	1334	S	-	-	21.3	25.19	7.35	2.21	0.6	-	16.2	0.3	-	-	-	-	6	L.G.	6	8	7	4	E	1	NE
-	-	M	-	-	21.2	25.23	7.45	2.24	0.8	-	16.9	0.0													
-	-	B	-	-	21.3	25.19	7.36	2.25	0.7	-	18.1	0.1													
5/10	1115	S	-	-	23.9	26.53	7.94	2.21	0.8	-	18.4	0.2	-	-	-	-	4	G.	3	8	8	4	W	2	W
-	-	M	-	-	24.0	26.51	8.15	2.26	1.0	-	19.4	0.2													
-	-	B	-	-	24.0	26.58	8.17	2.28	1.0	-	20.0	0.3													
6/22	1040	S	-	-	28.0	28.71	8.80	2.27	2.3	-	20.1	0.2	-	-	-	-	2½	G.	7	6,8	7	1	SE	0	
-	-	M	-	-	28.0	28.68	8.77	2.29	2.3	-	20.8	0.1													
-	-	B	-	-	28.0	28.68	8.71	2.30	2.4	-	21.7	0.1													
7/19	0856	S	-	-	30.4	29.20	9.03	2.23	7.2	-	17.2	0.1	-	-	-	-	8	D.G.	3	4,8	7	1	SW	1	SW
-	-	M	-	-	30.4	29.18	8.94	2.24	6.2	-	18.5	0.1													
-	-	B	-	-	30.4	29.18	8.94	2.31	6.4	-	15.0	0.0													
8/18	0910	S	-	-	29.7	23.40	7.06	2.10	3.3	-	21.4	0.1	-	-	-	-	6	Br.G.	1	8	6	4	NE	2	NE
-	-	M	-	-	29.6	24.99	7.70	2.23	8.1	-	20.2	0.1													
-	-	B	-	-	30.2	25.19	7.94	2.25	8.7	-	21.9	0.1													
9/20	1148	S	-	-	28.3	22.88	6.90	2.09	5.2	-	23.5	0.1	-	-	-	-	4½	R.Br.	3	3,4,8	6	3	N	2	N
-	-	M	-	-	28.2	22.77	6.90	2.16	5.3	-	25.2	0.1													
-	-	B	-	-	28.2	22.77	6.90	2.20	5.3	-	24.7	0.1													
10/3	1117	S	-	-	28.8	22.41	6.94	1.72	5.9	-	23.1	0.2	-	-	-	-	3	Br.	3	8	8	4	NE	2	NE
-	-	M	-	-	28.7	22.45	6.83	1.80	5.9	-	28.3	0.1													
-	-	B	-	-	28.7	22.50	6.93	1.93	6.1	-	27.8	0.1													
11/19	1327	S	-	-	24.1	26.02	8.08	2.27	4.7	-	21.1	0.2	-	-	-	46.9	-	Br.G.	2	2,3,8	7	0	-	1	NE
-	-	M	-	-	23.9	26.02	8.19	2.30	5.2	-	18.4	0.3	-	-	-	0.7									
-	-	B	-	-	23.8	26.09	8.30	2.30	5.5	-	20.7	0.2	-	-	-	<0.1									
12/19	1500	S	-	-	13.4	26.87	8.28	2.34	2.5	-	22.4	0.2	-	-	-	21.7	-	Br.G.	0	-	8	2	NW	1	N
-	-	M	-	-	13.4	26.96	8.31	2.32	2.7	-	22.1	0.1	-	-	-	0.1									
-	-	B	-	-	13.4	27.01	8.40	2.36	2.9	-	22.4	0.3	-	-	-	<0.1									
1961																									
1/31	1345	S	-	-	14.6	27.25	8.54	2.28	4.0	-	23.9	0.1	-	-	-	45.9	-	D.G.	2	2,8	7	2	NW	1	NE
-	-	M	-	-	14.4	27.25	8.47	2.30	4.0	-	24.3	0.3	-	-	-	17.9									
-	-	B	-	-	14.4	27.32	8.40	2.29	4.2	-	24.2	0.2	-	-	-	2.2									
2/27	1222	S	-	-	19.9	27.63	8.60	2.21	4.4	-	22.9	0.1	-	-	-	52.2	3	D.G.	0	-	7	3	E	1	E
-	-	M	-	-	19.8	27.50	8.60	2.22	5.0	-	22.4	0.1	-	-	-	6.5									
-	-	B	-	-	19.8	27.56	8.66	2.22	5.4	-	24.9	0.1	-	-	-	1.2									
3/7	1448	S	-	-	23.0	29.45	9.15	2.32	2.0	-	23.0	0.0	-	-	-	42.9	5	D.G.	5	1,2,8	7	5	SW	2	SW
-	-	M	-	-	23.0	29.42	9.00	2.34	1.7	-	23.2	0.0	-	-	-	14.3									
-	-	B	-	-	23.0	29.31	9.14	2.32	1.4	-	22.0	0.2	-	-	-	1.2									
5/10	1055	S	-	-	25.7	30.90	9.45	2.32	4.3	-	21.8	0.0	-	-	-	52.0	6	D.G.	6	8	7	4	NW	2	WNW
-	-	M	-	-	25.7	30.91	9.40	2.35	4.2	-	21.3	0.1	-	-	-	14.5									
-	-	B	-	-	25.8	30.91	9.60	2.32	4.1	-	22.2	0.1	-	-	-	3.0									
6/8	0852	S	-	-	27.8	-	9.72	2.40	4.4	-	22.1	0.3	-	-	-	42.9	6	D.G.	4	1,2,8	7	2	SE	1	SE
-	-	M	-	-	27.8	31.71	9.80	2.42	3.9	-	22.8	0.5	-	-	-	12.5									
-	-	B	-	-	27.8	31.73	9.84	2.42	4.2	-	20.9	0.1	-	-	-	1.9									
7/13	1150	S	-	-	30.1	31.98	10.02	2.41	1.2	-	22.0	0.6	-	-	-	42.7	4	D.G.	4	1,4,8	8	2	SE	1	SE
-	-	M	-	-	30.0	32.10	10.20	2.42	0.6	-	21.0	0.6	-	-	-	7.0									
-	-	B	-	-	29.9	32.18	10.02	2.42	1.5	-	24.2	1.3	-	-	-	0.0									

STATION 5 — Depth of 28 feet — Lat. 27°36.6' N. — Long. 82°43.8' W.

Date	Time	Depth	Gymnodinium breve C	Gymnodinium breve M	°C	Sal	Ca	Alk	Si	Phosphorus PO_4 In	Phosphorus PO_4 Tot	Nitrogen NO_3 NO_2-N	Nitrogen NH_3	Nitrogen Org	Nitrogen In	Light transn	Water Transp	Color	CA	Sky CT	Vi	Wind Amt	Wind Dir	Sea Amt	Sea Dir
1960																									
1/25	1417	S	P	0.0	11.9	31.49	-	-	-	2.5	3.4	0.2	-	-	-	-	4½	M.G.	6	1	-	3	NNE	2	NNE
-	-	M	0	-	11.8	31.49	-	-	-	2.4	2.8	0.1													
-	-	B	P	0.0	11.7	31.56	-	-	-	1.7	2.4	0.1													
2/17	1532	S	P	53	15.8	31.69	-	-	-	4.2	4.7	0.2	-	-	-	-	4	L.G.	8	1	-	0	-	0	
-	-	M	P	15.4	15.7	32.14	-	-	-	2.9	3.6	0.2													
-	-	B	P	22	15.7	32.36	-	-	-	3.1	4.0	0.5													
3/28	1353	S	P	11	19.0	29.56	-	-	-	7.3	7.9	0.3	-	-	-	-	8	L.G.	7	2	-	3	NE	2	
-	-	M	P	2.4	18.7	30.72	-	-	-	-	5.5	0.2													
-	-	B	P	3	18.7	31.15	-	-	-	4.4	5.4	0.5													
4/26	1331	S	P	0.0	24.1	32.25	9.70	2.37	2.6	-	5.5	0.1	-	-	-	-	8½	D.G.	7	3,4,6,8	7	2	SW	1	SW
-	-	M	P	0.2	23.7	33.75	9.90	2.40	3.0	-	3.9	0.7													
-	-	B	P	0.0	23.7	33.24	9.90	2.40	3.5	-	3.9	0.4													
5/24	1223	S	P	0.0	28.2	33.17	10.00	2.42	1.4	-	3.9	0.1	-	-	-	-	7	L.G.	1	8	8	2	NW	1	
-	-	M	0	-	27.0	33.49	10.17	2.41	3.3	-	2.7	0.1													
-	-	B	P	0.0	26.8	33.49	10.17	2.37	3.8	-	3.0	0.1													
6/21	1119	S	0	-	28.0	33.57	10.15	2.39	9.0	-	5.9	0.1	-	-	-	-	8	L.G.	8	6,8	6	4	W	2	SW
-	-	M	0	-	28.0	33.40	10.14	2.42	9.0	-	5.8	0.2													
-	-	B	0	-	28.0	33.33	10.15	2.41	9.1	-	6.4	0.2													
7/12	1534	S	0	-	31.0	33.91	10.34	2.44	3.8	-	5.9	0.2	-	-	-	-	5	Br.G.	6	8	7	4	W	2	W
-	-	M	0	-	30.9	34.05	10.34	2.44	6.2	-	5.0	0.2													
-	-	B	0	-	30.9	33.96	10.26	2.44	4.8	-	5.6	0.1													
8/9	1456	S	P	0.0	30.9	29.38	8.95	2.23	0.8	-	9.2	0.2	-	-	-	-	5½	Br.G.	2	6,8	7	1	SW	0	
-	-	M	P	0.1	29.6	31.13	9.50	2.34	1.8	-	7.8	0.2													
-	-	B	P	0.2	29.6	31.11	9.54	2.34	2.3	-	8.7	0.1													
9/8	1535	S	P	0.1	28.8	30.43	9.10	2.26	4.8	-	7.2	0.1	-	-	-	-	7	D.G.	8	6,8	7	5	NE	2	NE
-	-	M	P	0.1	28.9	31.24	9.40	2.31	6.2	-	5.7	0.1													
-	-	B	P	0.0	28.9	31.27	9.50	2.31	6.4	-	5.8	0.1													
10/4	1318	S	P	0.0	28.3	29.29	8.36	1.99	2.0	-	11.5	0.2	-	-	-	-	6	D.G.	6	2,4,8	6	3	E	2	E
-	-	M	0	-	28.2	30.17	9.15	2.11	2.2	-	10.1	0.6													
-	-	B	0	-	28.2	30.97	9.40	2.34	3.4	-	9.3	0.5													
11/17	1306	S	0	-	23.8	31.35	9.55	2.38	2.7	-	7.4	0.3	-	-	-	38.2	8	L.G.	6	2,4,8	7	1	N	0	
-	-	M	0	-	23.3	31.94	9.84	2.42	5.9	-	7.1	0.9	-	-	-	11.3									
-	-	B	0	-	23.3	32.21	9.80	2.42	4.0	-	6.6	0.4	-	-	-	0.5									
12/27	1005	S	0	-	12.8	32.27	9.87	2.44	0.5	-	3.2	0.2	-	-	-	36.0	-	M.G.	7	2,6,8	6	4	NE	2	NE
-	-	M	0	-	12.8	32.43	9.77	2.47	0.5	-	2.8	0.2	-	-	-	2.4									
-	-	B	0	-	12.8	32.29	9.77	2.46	0.6	-	3.4	0.1	-	-	-	0.2									
1961																									
1/30	1446	S	0	-	14.0	32.27	9.83	2.47	5.8	-	7.2	0.2	-	-	-	43.8	-	M.G.	0	-	7	4	NE	2	NE
-	-	M	0	-	13.8	32.38	10.03	2.48	1.4	-	6.9	0.2	-	-	-	2.1									
-	-	B	0	-	13.9	32.56	10.02	2.48	1.0	-	7.1	0.3	-	-	-	0.1									
2/20	1706	S	P	0.0	18.4	32.61	10.02	2.39	2.1	-	5.7	0.3	-	-	-	-	6	G.	6	1,2,8	7	1	S	0	
-	-	M	P	0.0	18.4	32.97	10.12	2.40	2.9	-		0.4													
-	-	B	P	0.0	18.4	33.26	10.24	2.44	4.5	-	4.7	0.4													
3/6	1532	S	P	0.0	22.6	33.42	10.30	2.47	3.1	-	5.3	0.7	-	-		-	4	G.	4	2,8	7	5	S	2	S
-	-	M	P	0.1	22.2	33.68	10.22	2.48	3.0	-	4.9	0.1													
-	-	B	P	0.0	22.2	33.68	10.35	2.48	2.5	-	4.9	0.2													
5/9	1055	S	0	-	25.6	34.36	10.54	2.47	4.6	-	5.7	0.1	-	-	-	48.0	5	M.G.	2	1,6,8	7	4	S	1	S
-	-	M	0	-	25.3	34.63	10.65	2.48	4.2	-	5.2	0.1	-	-	-	2.9									
-	-	B	P	0.0	25.3	34.56	10.56	2.48	4.2	-	5.3	0.1	-	-	-	0.1									
6/7	0948	S	0	-	27.3	34.29	10.51	2.48	5.8	-	6.7	0.8	-	-	-	52.4	8	D.G.	2	2,8	8	3	SE	1	SE
-	-	M	0	-	27.1	34.43	10.56	2.48	5.3	-	6.1	0.4	-	-	-	5.4									
-	-	B	0	-	27.1	34.47	10.65	2.48	5.8	-	7.0	2.1	-	-	-	0.9									
7/12	1306	S	0	-	30.5	35.35	10.74	2.49	1.1	-	6.2	0.4	-	-	-	42.9	6½	D.G.	6	2,8	7	2	SE	2	SE
-	-	M	0	-	30.2	35.53	11.00	2.48	1.7	-	4.9	0.6	-	-	-	2.2									
-	-	B	0	-	30.0	35.62	11.06	2.48	1.6	-	5.0	0.2	-	-	-	0.2									

STATION 7 — Depth of 25 feet — Lat. 27°35.1' N. — Long. 82°43.5' W.

Date	Time	Depth	Gymnodinium breve C	Gymnodinium breve M	°C	Sal	Ca	Alk	Si	Phosphorus PO_4 In	Phosphorus PO_4 Tot	Nitrogen NO_3 NO_2-N	Nitrogen NH_3	Nitrogen Org.	Nitrogen In	Light transm	Water Transp	Color	CA	Sky CT	Sky V_1	Wind Amt	Wind Dir	Sea Amt	Sea Dir
1960																									
1/25	1400	S	P	2	12.6	31.46	-	-	-	1.6	2.1	0.3	-	-	-	-	5	M.G.	6	1	-	3	NNE	2	NNE
-	-	M	P	0.3	12.6	31.40	-	-	-	1.6	2.3	0.1													
-	-	B	P	1	12.6	31.58	-	-	-	1.6	2.2	0.1													
2/17	1519	S	P	13	15.8	32.36	-	-	-	3.0	3.9	0.2	-	-	-	-	3½	L.G.	8	1	-	0	-	0	
-	-	M	P	43	15.8	32.36	-	-	-	3.5	3.9	0.6													
-	-	B	P	24.2	15.8	32.36	-	-	-	3.5	5.2	0.3													
3/28	1339	S	P	14	19.2	29.27	-	-	-	8.0	8.4	0.3	-	-	-	-	10½	L.G.	7	2	-	3	NE	2	NE
-	-	M	P	8	18.9	30.44	-	-	-	5.3	5.7	0.3													
-	-	B	P	12	19.2	31.33	-	-	-	3.4	3.8	0.3													
4/26	1307	S	P	1	24.4	33.13	10.11	2.37	2.5	-	3.9	0.2	7.1	-	-	-	9	D.G.	6	-	7	2	SW	1	SSW
-	-	M	P	1.2	24.0	33.24	10.03	2.38	2.5	-	3.4	0.0													
-	-	B	P	2.2	24.0	33.24	10.03	2.38	2.6	-	3.6	0.2													
5/24	1200	S	P	0.1	27.5	33.22	10.02	2.41	4.2	-	3.6	0.2	1.2	-	-	-	10	L.G.	1	8	8	2	NW	1	
-	-	M	P	0.1	27.1	33.33	10.13	2.38	5.0	-	3.8	0.1													
-	-	B	0	-	26.0	33.84	10.43	2.43	7.9	-	3.3	0.3													
6/21	1101	S	0	-	28.0	33.91	10.12	2.42	7.9	-	4.9	0.2	-	-	-	-	9½	L.G.	8	6,8	6	3	W	2	SW
-	-	M	0	-	28.0	34.02	10.12	2.41	7.6	-	4.6	0.1													
-	-	B	0	-	28.0	34.27	10.40	2.44	7.1	-	3.6	0.2													
7/12	1517	S	0	-	31.0	34.11	10.30	2.29	5.8	-	4.6	0.2	2.4	-	-	-	7	D.G.	6	8	7	4	W	2	W
-	-	M	0	-	31.0	34.18	10.42	2.40	5.7	-	4.5	0.2													
-	-	B	0	-	31.0	34.23	10.28	2.41	4.7	-	4.1	0.2													
8/9	1432	S	P	3	30.0	31.33	9.65	2.31	1.0	-	4.4	0.1	0.6	-	-	-	5	Br.G.	2	6,8	7	1	SW	0	
-	-	M	P	2.2	29.3	31.42	9.49	2.33	1.1	-	4.9	0.1													
-	-	B	P	1.2	29.7	31.38	9.52	2.23	1.6	-	5.3	0.1													
9/8	1518	S	P	1	28.7	30.26	8.98	2.27	3.9	-	6.4	0.3	2.4	-	-	-	8	D.G.	8	6,8	7	4	E	2	NE
-	-	M	P	0.3	28.8	30.64	9.08	2.26	4.3	-	5.8	0.2													
-	-	B	P	0.1	28.8	30.70	9.11	2.29	4.8	-	5.5	0.1													
10/4	1301	S	P	0.0	28.2	29.47	8.90	2.04	2.2	-	10.5	0.4	2.4	-	-	-	6½	D.G.	6	2,4,8	6	4	E	2	E
-	-	M	P	0.0	28.2	30.43	9.35	2.08	2.5	-	8.3	0.1													
-	-	B	0	-	28.3	31.13	9.55	2.08	3.2	-	7.3	0.8													
11/17	1247	S	0	-	24.6	32.20	9.78	2.39	3.1	-	6.3	0.0	0.0	-	-	47.8	11	L.G.	6	2,4,8	7	0	-	0	
-	-	M	0	-	24.5	32.20	9.84	2.38	3.3	-	6.4	0.0	-	-	-	11.6									
-	-	B	0	-	24.5	32.29	9.84	2.36	3.0	-	6.3	0.4	-	-	-	2.7									
12/27	0949	S	0	-	12.6	31.82	9.70	2.42	0.3	-	3.6	0.1	1.2	-	-	37.9	-	M.G.	7	2,6,8	6	4	NE	2	NE
-	-	M	0	-	12.6	32.21	9.80	2.44	0.5	-	3.1	0.2	-	-	-	6.0									
-	-	B	0	-	12.7	32.27	9.84	2.45	0.6	-	3.0	0.3	-	-	-	0.9									
1961																									
1/30	1430	S	0	-	14.3	32.30	10.00	2.45	4.4	-	7.7	0.1	-	26.9	0.0	44.1	-	M.G.	0	-	7	4	NE	2	NE
-	-	M	0	-	14.2	32.34	9.80	2.44	4.4	-	7.9	0.2	-	-	-	1.4									
-	-	B	0	-	14.2	32.38	9.94	2.48	5.9	-	8.3	0.2	-	-	-	0.2									
2/20	1650	S	P	0.0	18.2	32.97	10.21	2.38	0.8	-	4.7	0.1	-	17.4	0.7	-	10	G.	6	1,2,8	7	2	S	1	S
-	-	M	P	0.0	18.6	33.24	10.17	2.40	1.8	-	3.8	0.1													
-	-	B	P	0.0	18.6	33.15	10.12	2.40	2.8	-	3.7	0.2													
3/6	1514	S	P	0.0	22.3	33.87	10.36	2.47	1.4	-	3.9	0.3	0.0	-	-	-	9	G.	3	2,8	7	5	S	2	S
-	-	M	P	0.0	22.3	33.86	10.40	2.47	1.9	-	3.8	0.4													
-	-	B	0	-	22.2	33.86	10.30	2.47	1.8	-	4.0	0.6													
5/9	1037	S	P	0.0	25.6	34.63	10.60	2.47	3.9	-	5.2	0.0	-	17.3	2.3	54.0	9	G.	2	1,6,8	7	4	S	1	S
-	-	M	0	-	25.6	34.63	10.57	2.46	4.0	-	4.5	0.3	-	-	-	13.7									
-	-	B	0	-	25.6	34.63	10.48	2.46	3.9	-	4.3	0.2	-	-	-	6.0									
6/7	0929	S	0	-	27.5	34.54	10.51	2.47	3.9	-	5.1	0.9	3.5	40.9	6.4	55.0	12	D.G.	2	2,8	8	3	SE	1	SE
-	-	M	0	-	27.4	34.54	10.55	2.47	3.9	-	5.2	0.3	-	-	-	14.4									
-	-	B	0	-	27.4	34.54	10.57	2.47	4.5	-	5.2	1.5	-	-	-	6.2									
7/12	1250	S	0	-	30.4	35.79	11.04	2.48	1.3	-	2.8	0.4	0.6	28.1	6.1	37.5	9	D.G.	4	2,8	7	3	SE	2	SE
-	-	M	0	-	30.3	35.79	11.00	2.48	1.9	-	4.8	0.1	-	-	-	8.6									
-	-	B	0	-	30.2	35.79	11.04	2.48	0.3	-	3.0	0.7	-	-	-	1.3									

STATION 8 — Depth of 21 feet — Lat. 27°34.4' N. — Long. 82°43.4' W.

Date	Time	Depth	Gymnodinium breve C	Gymnodinium breve M	°C	Sal	Ca	Alk	Si	Phosphorus PO_4 In	Phosphorus PO_4 Tot	Nitrogen NO_3 NO_2-N	Nitrogen NH_3	Nitrogen Org	Water In	Light transm	Water Transp	Color	CA	Sky CT	Sky Vi	Wind Amt	Wind Dir	Sea Amt	Sea Dir
1960																									
1/25	1347	S	-	-	12.8	31.55	-	-	-	3.0	3.5	0.2	-	-	-	-	7	M.G.	6	1	-	4	NNE	2	NNE
-	-	M	-	-	12.8	31.55	-	-	-	3.2	3.5	0.3													
-	-	B	-	-	12.8	31.64	-	-	-	3.6	4.1	0.1													
2/17	1506	S	-	-	15.8	32.97	-	-	-	2.6	2.8	0.3	-	-	-	-	4	L.G.	7	1	-	0	-	0	
-	-	M	-	-	15.9	33.06	-	-	-	2.1	2.5	0.4													
-	-	B	-	-	15.9	33.06	-	-	-	2.3	2.5	0.4													
3/28	1328	S	-	-	19.5	29.52	-	-	-	7.1	7.3	0.1	-	-	-	-	10½	L.G.	7	2	-	3	NE	2	NE
-	-	M	-	-	19.0	32.18	-	-	-	2.0	2.3	0.3													
-	-	B	-	-	19.0	32.56	-	-	-	1.5	1.7	0.3													
4/26	1249	S	-	-	25.2	33.03	10.03	2.38	2.2	-	3.7	0.1	-	-	-	-	7	L.G.	6	3,4,6,8	7	2	SW	1	SSW
-	-	M	-	-	24.0	34.09	10.38	2.41	2.7	-	2.1	0.1													
-	-	B	-	-	24.0	34.02	10.30	2.42	2.5	-	1.9	0.2													
5/24	1147	S	-	-	27.0	33.49	10.20	2.38	6.4	-	3.6	0.1	-	-	-	-	11	L.G.	1	8	8	2	NW	1	
-	-	M	-	-	25.5	34.16	10.40	2.41	6.9	-	2.7	0.1													
-	-	B	-	-	25.2	34.25	10.36	2.42	6.7	-	2.6	0.0													
6/21	1046	S	-	-	27.9	34.94	10.70	2.44	5.2	-	1.8	0.3	-	-	-	-	9	L.G.	8	6,8	6	3	W	2	SW
-	-	M	-	-	27.9	34.88	10.70	2.42	5.5	-	2.1	0.2													
-	-	B	-	-	27.9	34.90	10.60	2.44	5.4	-	2.5	0.2													
7/12	1503	S	-	-	31.2	35.03	10.70	2.43	2.8	-	1.8	0.1	-	-	-	-	8	D.G.	6	8	7	4	W	2	W
-	-	M	-	-	31.2	35.07	10.70	2.43	2.9	-	2.0	0.2													
-	-	B	-	-	31.2	35.03	10.65	2.43	3.1	-	1.9	0.1													
8/9	1417	S	-	-	29.8	30.10	9.11	2.27	1.3	-	7.0	0.1	-	-	-	-	7½	Br.G.	2	8	7	1	SW	0	
-	-	M	-	-	29.7	31.91	9.64	2.32	1.1	-	3.1	0.0													
-	-	B	-	-	29.8	32.27	9.78	2.34	1.2	-	2.9	0.2													
9/8	1507	S	-	-	28.8	30.46	9.20	2.29	4.0	-	4.7	0.1	-	-	-	-	8	D.G.	8	6,8	7	3	SE	2	NE
-	-	M	-	-	28.8	31.00	9.30	2.30	4.2	-	4.2	3.8													
-	-	B	-	-	28.8	32.23	9.61	2.33	6.9	-	2.1	0.4													
10/4	1259	S	-	-	28.1	29.87	9.00	1.99	1.8	-	9.1	0.4	-	-	-	-	8	D.G.	6	2,3,4,8	6	4	E	2	E
-	-	M	-	-	28.2	30.79	9.25	2.07	2.0	-	7.1	0.2													
-	-	B	-	-	28.4	32.90	9.81	2.16	2.8	-	2.3	0.6													
11/17	1232	S	-	-	24.0	31.42	9.55	2.35	3.8	-	8.6	0.0	-	-	-	50.0	11	L.G.	5	1,4,8	7	1	N	1	N
-	-	M	-	-	23.9	33.08	10.12	2.38	5.3	-	4.3	0.1	-	-	-	14.7									
-	-	B	-	-	23.8	33.33	10.04	2.38	5.5	-	3.7	0.3	-	-	-	5.7									
12/27	0937	S	-	-	12.8	32.14	9.65	2.42	0.4	-	4.1	0.2	-	-	-	40.0	-	M.G.	7	2,6,8	6	4	NE	2	NE
-	-	M	-	-	12.8	32.18	9.83	2.41	0.4	-	4.4	0.3	-	-	-	9.7									
-	-	B	-	-	12.8	32.18	9.85	2.39	0.6	-	3.8	0.2	-	-	-	3.1									
1961																									
1/30	1415	S	-	-	14.5	32.12	9.95	2.42	2.6	-	8.2	0.1	-	-	-	61.1	-	M.G.	0	-	7	4	NE	2	NE
-	-	M	-	-	14.4	32.30	9.74	2.42	2.8	-	7.8	0.1	-	-	-	17.4									
-	-	B	-	-	14.4	32.59	9.99	2.43	2.9	-	6.7	0.1	-	-	-	2.5									
2/20	1639	S	-	-	19.4	33.44	10.24	2.41	2.1	-	3.0	0.2	-	-	-	-	8	L.G.	7	1,2,8	7	2	S	1	S
-	-	M	-	-	19.2	33.98	10.55	2.44	2.0	-	1.9	0.1													
-	-	B	-	-	19.2	33.42	10.32	2.39	1.8	-	3.3	0.1													
3/6	1503	S	-	-	22.6	34.29	10.40	2.46	3.2	-	2.4	0.5	-	-	-	-	8	G.	3	2,8	7	5	S	2	S
-	-	M	-	-	22.6	34.31	10.68	2.46	4.5	-	1.7	0.5													
-	-	B	-	-	22.6	34.31	10.48	2.46	3.9	-	1.7														
5/9	1021	S	-	-	25.8	34.40	10.52	2.45	3.4	-	5.8	0.0	-	-	-	55.1	11	G.	2	1,6,8	7	4	S	1	S
-	-	M	-	-	25.8	34.69	10.57	2.46	5.6	-	4.0	0.2	-	-	-	22.4									
-	-	B	-	-	25.8	35.03	10.83	2.46	5.8	-	3.0	0.0	-	-	-	9.0									
6/7	0916	S	-	-	28.0	35.03	10.63	2.48	2.3	-	3.5	0.1	-	-	-	52.6	12	D.G.	2	2,8	8	3	SE	1	SE
-	-	M	-	-	28.0	35.03	10.70	2.48	3.0	-	3.7	0.2	-	-	-	23.7									
-	-	B	-	-	28.0	35.03	10.70	2.48	2.5	-	3.9	0.5	-	-	-	9.9									
7/12	1234	S	-	-	30.4	35.88	11.00	2.49	1.7	-	-	0.1	-	-	-	41.7	11	L.G.	4	2,8,9	7	3	SE	2	SE
-	-	M	-	-	30.3	35.88	11.06	2.48	2.1	-	2.0	0.4	-	-	-	23.3									
-	-	B	-	-	30.3	35.88	11.07	2.48	1.3	-	1.8	1.0	-	-	-	6.7									

STATION 9 Depth of 16 feet Lat. 27°33.7' N. Long. 82°43.4' W.

Date	Time	Depth	Gymnodinium breve C	Gymnodinium breve M	°C	Sal	Ca	Alk	Si	Phosphorus PO_4 In	Phosphorus PO_4 Tot	Nitrogen NO_3 NO_2-N	Nitrogen NH_3	Nitrogen Org	Nitrogen In	Light transm	Water Transp	Water Color	Sky CA	Sky CT	Sky Vi	Wind Amt	Wind Dir	Sea Amt	Sea Dir
1960																									
1/25	1336	S	P	0.9	13.0	32.00	-	-	-	3.2	3.6	0.2	-	-	-	-	7	M.G.	6	1	-	4	NNE	2	
-	-	M	P	0.1	13.0	32.00	-	-	-	3.3	3.7	0.1													
-	-	B	P	0.3	13.0	32.01	-	-	-	3.1	3.8	0.1													
2/17	1455	S	P	5.2	16.0	33.33	-	-	-	1.8	2.4	0.2	-	-	-	-	3½	L.G.	7	1	-	0		0	
-	-	M	P	5	16.0	33.42	-	-	-	2.0	2.3	0.3													
-	-	B	P	1.8	16.0	33.42	-	-	-	2.0	2.4	0.3													
3/28	1317	S	P	11.2	19.7	30.59	-	-	-	4.3	4.6	0.3	-	-	-	-	10	L.G.	7	2	-	2	NE	0	
-	-	M	P	5.2	19.2	32.43	-	-	-	1.4	1.8	0.2													
-	-	B	P	6	19.2	32.52	-	-	-	1.5	1.7	0.2													
4/26	1234	S	P	1.8	25.5	32.97	10.03	2.38	1.4	-	3.6	0.2	-	-	-	-	9	L.G.	6	3,4,8	7	2	SW	2	SW
-	-	M	P	7	24.1	34.05	10.28	2.42	1.9	-	2.0	0.1													
-	-	B	P	3	24.2	34.09	10.28	2.42	1.9	-	1.8	0.8													
5/24	1132	S	P	0.0	26.4	33.75	10.42	2.40	6.9	-	3.5	0.1	-	-	-	-	11	L.G.	1	8	8	2	NW	1	
-	-	M	0	-	25.5	34.02	10.30	2.37	7.3	-	3.0	0.1													
-	-	B	0	-	25.5	34.07	10.34	2.38	7.5	-	3.0	0.1													
6/21	1032	S	0	-	27.9	34.72	10.70	2.45	4.9	-	2.5	0.2	-	-	-	-	9	L.G.	8	6,8	6	5	W	2	SW
-	-	M	0	-	28.0	34.74	10.80	2.44	4.8	-	4.0	0.1													
-	-	B	0	-	28.0	34.72	10.30	2.44	4.9	-	2.5	0.2													
7/12	1449	S	0	-	31.0	35.03	10.56	2.43	2.1	-	1.7	0.2	-	-	-	-	7	D.G.	6	8	7	4	W	2	W
-	-	M	0	-	31.0	35.10	10.61	2.38	3.0	-	1.6	0.0													
-	-	B	0	-	31.0	35.10	10.68	2.44	3.6	-	1.8	0.1													
8/9	1403	S	P	0.2	30.2	30.99	9.35	2.27	1.0	-	3.4	0.1	-	-	-	-	8	M.G.	2	8	7	1	SW	0	
-	-	M	P	6	29.9	32.54	9.85	2.34	1.4	-	2.0	0.1													
-	-	B	P	3.4	29.9	32.54	9.80	2.34	1.4	-	1.5	0.1													
9/8	1453	S	P	0.4	28.8	29.45	8.75	2.26	2.5	-	5.5	0.1	-	-	-	-	8	D.G.	8	6,8	7	5	E	2	NE
-	-	M	P	0.0	28.9	30.64	9.28	2.29	4.3	-	4.0	0.1													
-	-	B	P	0.0	29.0	29.90	8.95	2.26	3.6	-	5.2	0.1													
10/4	1234	S	P	0.0	28.2	30.39	9.13	2.05	1.8	-	6.8	0.4	-	-	-	-	10	D.G.	6	2,3,4,8	6	4	E	2	E
-	-	M	0	-	28.5	32.47	9.75	2.15	2.2	-	3.0	0.1													
-	-	B	0	-	28.5	33.01	9.99	2.16	2.4	-	2.1	0.3													
11/17	1216	S	0	-	24.2	31.85	9.80	2.36	3.7	-	7.4	0.3	-	-	-	51.1	11	L.G.	5	1,4,8	7	2	N	1	N
-	-	M	0	-	24.2	33.96	10.36	2.40	5.3	-	2.3	0.4	-	-	-	24.2									
-	-	B	0	-	24.9	34.04	10.40	2.40	5.3	-	2.2	1.6	-	-	-	13.8									
12/27	0924	S	0	-	12.9	31.78	9.72	2.38	0.4	-	6.1	0.2	-	-	-	48.5	-	G.	7	2,6,8	6	4	NE	2	NE
-	-	M	0	-	12.8	31.82	9.72	2.40	0.5	-	6.8	0.2	-	-	-	17.2									
-	-	B	0	-	12.8	31.78	9.65	2.41	0.5	-	6.3	0.1	-	-	-	6.8									
1961																									
1/30	1401	S	0	-	14.5	32.48	9.83	2.38	2.8	-	6.5	0.0	-	-	-	66.7	-	M.G.	0	-	7	4	NE	2	NE
-	-	M	0	-	14.5	32.47	9.90	2.38	2.8	-	6.7	0.1	-	-	-	31.6									
-	-	B	0	-	14.5	32.52	9.90	2.42	2.5	-	6.6	0.1	-	-	-	7.2									
2/20	1624	S	P	0.0	19.4	34.04	10.50	2.43	2.2	-	1.8	0.1	-	-	-	-	7	M.G.	6	1,2,8	7	3	S	1	S
-	-	M	P	0.0	19.4	33.95	10.61	2.44	1.8	-	1.9	0.1													
-	-	B	P	0.1	19.4	33.95	10.36	2.45	2.9	-	1.6	0.1													
3/6	1445	S	P	0.1	22.7	34.31	10.42	2.46	4.1	-	1.5	0.2	-	-	-	-	8	G.	3	2,8	7	5	S	2	S
-	-	M	P	0.1	22.8	34.31	10.46	2.46	3.5	-	1.6	0.1													
-	-	B	P	0.1	22.8	34.31	10.54	2.45	3.8	-	1.4	0.5													
5/9	1005	S	0	-	25.9	35.23	10.72	2.48	6.9	-	1.8	0.0	-	-	-	63.0	11	L.G.	2	1,6,8	7	4	S	1	S
-	-	M	0	-	25.8	35.21	10.78	2.47	6.9	-	2.0	0.2	-	-	-	28.3									
-	-	B	0	-	25.6	35.21	10.93	2.47	6.9	-	1.8	0.2	-	-	-	12.9									
6/7	0900	S	0	-	27.6	35.05	10.76	2.47	3.4	-	3.2	0.2	-	-	-	52.9	14	D.G.	2	2,3,8	8	3	SE	1	SE
-	-	M	0	-	27.6	35.05	10.75	2.47	3.1	-	3.0	0.6	-	-	-	21.3									
-	-	B	0	-	27.6	35.07	10.67	2.47	2.9	-	2.6	0.5	-	-	-	14.0									
7/12	1220	S	0	-	30.5	35.88	11.00	2.48	1.5	-	1.7	0.8	-	-	-	20.4	10	L.G.	4	2,8,9	7	4	SE	2	SE
-	-	M	0	-	30.4	35.88	11.03	2.48	2.4	-	1.6	1.4	-	-	-	14.9									
-	-	B	0	-	30.4	35.95	11.05	2.48	3.0	-	2.0	1.2	-	-	-	11.4									

STATION 11 Depth of 15 feet Lat. 27°33' N. Long. 82°42.9' W.

Date	Time	Depth	Gymnodinium breve C	Gymnodinium breve M	°C	Sal.	Ca	Alk	Si	Phosphorus PO_4 In	Phosphorus PO_4 Tot	Nitrogen NO_3-NO_2-N	Nitrogen NH_3	Nitrogen Org.	Water In	Water Light transm	Water Transp	Water Color	Sky CA	Sky CT	Wind Vi	Wind Amt	Wind Dir	Sea Amt	Sea Dir
1960																									
1/25	1326	S	"	"	12.5	31.35	"	"	"	4.8	5.3	0.2	"	"	"	"	$7\frac{1}{2}$	M.G.	6	1	"	4	NNE	2	
"	"	M	"	"	12.6	31.38	"	"	"	4.7	5.6	0.4													
"	"	B	"	"	13.9	31.74	"	"	"	3.8	4.2	0.2													
2/17	1444	S	"	"	15.8	32.27	"	"	"	2.9	3.2	0.3	"	"	"	"	5	L.G.	7	1	"	0	"	0	
"	"	M	"	"	15.9	32.81	"	"	"	2.2	2.6	0.3													
"	"	B	"	"	16.0	33.06	"	"	"	1.9	2.7	0.2													
3/28	1306	S	"	"	19.8	30.43	"	"	"	4.8	5.1	0.2	"	"	"	"	$9\frac{1}{2}$	L.G.	7	2	"	2	SE	0	
"	"	M	"	"	19.7	32.34	"	"	"	1.5	1.9	0.2													
"	"	B	"	"	19.7	32.38	"	"	"	1.6	1.9	0.1													
4/26	1219	S	"	"	25.1	32.41	9.98	2.37	1.6	"	4.6	0.2	1.8	"	"	"	11	L.G.	6	3,4,8	7	2	SW	1	SSW
"	"	M	"	"	24.0	33.51	10.11	2.41	1.6	"	2.9	0.1													
"	"	B	"	"	24.1	34.18	10.35	2.42	2.3	"	1.7	0.4													
5/24	1118	S	"	"	27.4	32.79	9.41	2.37	7.3	"	5.4	"	1.8	"	"	"	$10\frac{1}{2}$	L.G.	1	8	8	1	WNW	1	
"	"	M	"	"	25.6	32.95	10.22	2.40	7.1	"	5.0	0.0													
"	"	B	"	"	25.5	34.02	10.31	"	6.6	"	3.8	0.1													
6/21	1014	S	"	"	28.0	34.20	10.50	2.43	5.8	"	4.3	0.2	"	"	"	"	9	L.G.	8	6,8	6	4	WSW	2	SW
"	"	M	"	"	28.1	34.22	10.70	2.43	5.8	"	4.7	0.3													
"	"	B	"	"	28.0	34.56	10.44	2.44	5.8	"	3.0	0.1													
7/12	1434	S	"	"	29.9	34.88	10.50	2.41	2.4	"	2.2	0.1	4.7	"	"	"	7	D.G.	6	8	7	4	W	2	W
"	"	M	"	"	29.9	34.92	10.47	2.41	2.6	"	2.2	0.3													
"	"	B	"	"	29.9	34.92	10.57	2.41	2.8	"	2.2	0.1													
8/9	1348	S	"	"	30.2	30.73	9.20	2.30	0.9	"	4.3	0.1	6.5	"	"	"	6	Br.G.	2	8	7	1	SW	0	
"	"	M	"	"	30.0	31.29	9.33	2.33	1.5	"	3.6	0.1													
"	"	B	"	"	30.0	32.27	9.66	2.33	1.2	"	1.9	0.1													
9/8	1438	S	"	"	28.5	29.38	8.64	2.26	3.5	"	6.0	0.2	4.1	"	"	"	7	Br.G.	8	6,8	7	5	E	2	NE
"	"	M	"	"	29.0	29.99	8.95	2.29	4.1	"	5.5	1.8													
"	"	B	"	"	29.0	32.29	9.78	2.34	6.7	"	2.1	0.1													
10/4	1222	S	"	"	27.9	28.80	8.70	2.07	1.0	"	9.8	0.1	1.8	"	"	"	10	D.G.	6	2,3,4,8	6	4	E	2	E
"	"	M	"	"	28.0	32.16	9.64	2.13	1.8	"	3.3	0.4													
"	"	B	"	"	28.2	33.12	9.97	2.16	2.4	"	2.2	0.3													
11/17	1200	S	"	"	23.9	31.38	9.70	2.40	3.4	"	8.2	0.1	"	"	"	43.3	11	L.G.	5	1,2,8	7	1	N	1	N
"	"	M	"	"	23.8	33.98	10.42	2.43	5.4	"	2.3	0.5	"	"	"	23.8									
"	"	B	"	"	23.8	33.98	10.37	2.38	5.5	"	2.5	0.4	"	"	"	13.1									
12/27	0912	S	"	"	12.3	30.39	9.36	2.39	0.3	"	11.9	0.1	0.0	"	"	50.0	"	G.	7	2,6,8	6	4	NE	2	NE
"	"	M	"	"	13.0	30.68	9.40	2.38	0.3	"	11.1	0.1	"	"	"	28.6									
"	"	B	"	"	13.1	32.30	9.93	2.43	0.8	"	5.9	0.1	"	"	"	8.2									
1961																									
1/30	1347	S	"	"	14.5	32.00	9.75	2.37	2.3	"	7.3	0.2	"	20.4	2.4	57.9	"	M.G.	0	"	7	4	NE	2	NE
"	"	M	"	"	14.6	32.03	9.80	2.38	2.8	"	7.3	0.1	"	"	"	20.4									
"	"	B	"	"	14.4	32.03	9.80	2.38	3.1	"	7.6	0.1	"	"	"	7.2									
2/20	1611	S	"	"	20.4	33.44	10.36	2.42	1.8	"	2.9	0.2	"	14.7	0.9	"	8	M.G.	6	1,2,8	7	3	S	1	S
"	"	M	"	"	19.6	33.62	10.38	2.44	2.8	"	2.7	0.1													
"	"	B	"	"	19.8	33.33	10.40	2.42	1.0	"	3.3	0.1													
3/6	1437	S	"	"	23.3	34.14	10.52	2.46	2.1	"	2.7	0.1	0.6	14.7	2.9	"	9	G.	3	2,8	7	5	S	2	S
"	"	M	"	"	23.1	34.20	10.40	2.47	2.1	"	2.5	0.1													
"	"	B	"	"	23.1	34.20	10.42	2.46	2.7	"	2.0	0.2													
5/9	0952	S	"	"	25.6	34.79	10.53	2.48	5.5	"	3.5	0.1	0.0	17.9	2.0	51.3	11	G.	2	1,6,8	7	4	S	1	S
"	"	M	"	"	25.6	34.79	10.60	2.48	5.4	"	3.7	0.6	"	"	"	21.0									
"	"	B	"	"	25.7	35.91	10.25	2.46	7.5	"	2.8	0.5	"	"	"	12.6									
6/7	0848	S	"	"	27.8	34.87	10.67	2.48	2.3	"	4.3	0.1	5.3	41.7	5.7	56.3	11	D.G.	2	1,2,3	8	3	SE	0	SE
"	"	M	"	"	27.8	34.88	10.60	2.48	2.0	"	4.8	0.9	"	"	"	22.7									
"	"	B	"	"	27.7	34.90	10.68	2.48	2.8	"	4.6	0.3	"	"	"	12.5									
7/12	1204	S	"	"	30.4	35.79	11.00	2.49	3.4	"	2.2	"	1.2	20.1	1.3	29.2	10	L.G.	3	1,2,8	7	4	SE	2	SE
"	"	M	"	"	30.2	35.79	10.95	2.48	2.6	"	1.8	0.8	"	"	"	16.1									
"	"	B	"	"	30.3	35.79	11.00	2.48	2.5	"	2.1	1.4	"	"	"	6.2									

STATION 12 Depth of 15 feet Lat. 27°32.7' N. Long. 82°43.7' W.

Date	Time	Depth	Gymnodinium breve C	Gymnodinium breve M	°C	Sal.	Ca	Alk	Si	Phosphorus PO_4 In	Phosphorus PO_4 Tot	Nitrogen NO_3 NO_2-N	Nitrogen NH_3	Nitrogen Org	Water In	Water Light transm	Water Transp	Color	Sky CA	Sky CT	Sky Vi	Wind Amt	Wind Dir	Sea Amt	Sea Dir
1960																									
1/25	1310	S	P	1.8	12.9	31.46	-	-	-	4.5	5.4	0.1	-	-	-	-	7½	M.G.	6	1	-	4	NNE	2	NNE
-	-	M	P	10	13.4	32.30	-	-	-	3.4	-	0.2													
-	-	B	P	24	13.7	32.41	-	-	-	1.9	2.5	0.4													
2/17	1434	S	P		4.1	16.2	33.42	-	-	-	1.4	1.6	0.3	-	-	-	-	3½	L.G.	7	1	-	0	-	0	
-	-	M	P		8.2	16.2	33.42	-	-	-	1.2	1.7	0.2													
-	-	B	P		4.3	16.2	33.39	-	-	-	1.5	1.6	0.3													
3/28	1253	S	P		1.6	19.5	32.52	-	-	-	1.4	1.7	0.2	-	-	-	-	9	L.G.	7	2	-	2	SE	0	
-	-	M	P		3.2	19.5	32.56	-	-	-	1.3	1.8	0.3													
-	-	B	P		5.4	19.5	32.52	-	-	-	0.1	1.6	0.2													
4/26	1200	S	P		0.8	25.1	32.88	9.70	2.40	1.1	-	3.6	0.3	-	-	-	-	9½	L.G.	6	3,4,8	7	1	SW	2	SSW
-	-	M	P		.8	24.2	34.13	10.28	2.41	1.7	-	1.3	0.2													
-	-	B	P		6	24.1	34.31	10.38	2.41	1.6	-	1.3	0.0													
5/24	1102	S	0		-	27.2	32.92	10.02	2.36	7.2	-	5.1	0.1	-	-	-	-	11	L.G.	1	8	8	1	WNW	1	
-	-	M	0		-	26.1	33.60	10.22	2.39	6.4	-	4.3	0.1													
-	-	B	0		-	25.0	34.45	10.50	2.40	6.0	-	2.3	0.1													
6/21	0959	S	0		-	28.0	34.90	10.50	2.44	4.6	-	2.3	0.2	-	-	-	-	9	L.G.	8	6,8	6	4	WSW	2	SW
-	-	M	0		-	28.0	34.90	10.50	2.45	4.0	-	2.4	0.1													
-	-	B	0		-	28.0	34.90	10.60	2.44	4.0	-	2.0	0.2													
7/12	1424	S	0		-	31.0	35.03	10.70	2.39	2.7	1.7	-	-	-	-	-	-	5	G.	6	8	7	4	W	2	W
-	-	M	0		-	31.0	35.10	10.63	2.45	3.0	1.6															
-	-	B	0		-	31.0	35.08	10.72	2.43	2.7	1.4															
8/9	1332	S	P		1.8	30.6	32.54	9.88	2.34	1.9	-	1.5	0.3	-	-	-	-	8	M.G.	2	8	7	1	SW	0	
-	-	M	P		1	30.0	32.54	9.84	2.34	1.7	-	1.5	0.1													
-	-	B	P		2	30.0	32.54	9.89	2.35	1.7	-	1.5	0.2													
9/8	1425	S	P		0.8	29.0	32.59	10.12	2.33	7.8	-	1.4	0.1	-	-	-	-	10½	G.	8	6,8	7	3	SE	2	NE
-	-	M	P		0.2	29.0	32.65	10.00	2.34	7.7	-	1.5	1.3													
-	-	B	P		0.1	29.0	32.59	9.90	2.33	7.4	-	1.6	0.2													
10/4	1208	S	P		0.0	27.8	29.81	9.00	2.09	1.1	-	7.1	0.1	-	-	-	-	9	D.G.	6	2,3,4,8	6	4	E	2	E
-	-	M	0		-	28.1	33.13	10.00	2.13	2.9	-	1.6	0.1													
-	-	B	0		-	28.2	33.28	9.95	2.13	3.1	-	1.6	0.1													
11/17	1141	S	0		-	24.5	31.04	9.34	2.37	2.9	-	8.9	1.4	-	-	-	60.1	12	L.G.	5	1,2,8	7	1	N	1	N
-	-	M	0		-	24.3	33.96	10.34	2.42	5.4	-	2.2	1.3	-	-	-	34.7									
-	-	B	0		-	24.1	34.16	10.46	2.42	5.4	-	1.9	-	-	-	-	19.5									
12/27	0855	S	0		-	12.4	30.68	9.44	2.38	0.2	-	11.0	0.2	-	-	-	58.3	-	M.G.	7	2,6,8	6	3	NE	2	NE
-	-	M	0		-	12.5	31.27	9.46	2.40	0.3	-	8.7	0.0	-	-	-	27.5									
-	-	B	0		-	13.5	33.21	10.15	2.41	0.7	-	3.5	0.2	-	-	-	11.7									
1961																									
1/30	1330	S	0		-	14.4	32.36	9.85	2.41	3.1	-	7.3	0.1	-	-	-	57.9	-	M.G.	0	-	7	4	NE	2	NE
-	-	M	0		-	14.4	32.32	9.80	2.41	3.3	-	7.6	0.1	-	-	-	15.8									
-	-	B	0		-	14.4	32.29	9.80	2.42	3.8	-	7.7	0.2	-	-	-	1.4									
2/20	1555	S	P		0.0	19.50	34.02	10.40	2.36	1.7	-	1.9	0.1	-	-	-	-	10	M.G.	6	1,2,8	7	3	S	1	S
-	-	M	F		0.1	19.50	33.96	10.50	2.38	1.7	-	1.9	0.2													
-	-	B	F		0.1	19.50	33.98	10.36	2.42	1.6	-	1.9	0.1													
3/6	1425	S	P		0.0	23.0	34.33	10.50	2.46	3.4	-	1.4	0.1	-	-	-	-	12	G.	3	2,8	7	5	S	2	S
-	-	M	0		-	23.0	34.33	10.48	2.46	3.1	-	1.4	0.5													
-	-	B	P		0.0	23.0	34.29	10.53	2.45	3.1	-	1.4	0.1													
5/9	0937	S	0		-	25.6	34.96	10.50	2.48	6.3	-	3.1	0.0	-	-	-	54.6	11	G.	3	1,6,8	7	4	S	1	S
-	-	M	0		-	25.6	35.03	10.70	2.48	7.5	-	2.1	0.0	-	-	-	33.1									
-	-	B	P		0.0	25.6	35.25	10.66	2.48	7.4	-	2.1	0.3	-	-	-	17.5									
6/7	0830	S	0		-	27.7	34.90	10.70	2.47	2.8	-	4.6	0.3	-	-	-	64.3	16	G.	2	1,2,3	8	3	SE	1	SE
-	-	M	0		-	27.5	34.97	10.62	2.48	2.0	-	3.6	0.6	-	-	-	29.5									
-	-	B	0		-	27.4	35.12	10.70	2.47	2.7	-	2.7	4.2	-	-	-	17.0									
7/12	1147	S	0		-	30.5	35.97	11.05	2.48	2.5	-	1.6	-	-	-	-	54.0	10	L.G.	3	1,2,8	7	4	SE	2	SE
-	-	M	0		-	30.5	36.02	11.10	2.49	2.9	-	1.6	0.1	-	-	-	25.0									
-	-	B	0		-	30.5	36.02	10.91	2.48	2.7	-	1.8	1.2	-	-	-	6.8									

STATION A — Depth of 93 feet — Lat. 27°36.4' N. — Long. 82°45.8' W.

Date	Time	Depth	Gymnodinium breve C	Gymnodinium breve M	°C	Sal	Ca	Alk	Si	Phosphorus PO_4 In	Phosphorus PO_4 Tot	Nitrogen NO_3 NO_2-N	Nitrogen NH_3	Nitrogen Org	Nitrogen In	Light transm	Water Transp	Water Color	Sky CA	Sky CT	Sky Vi	Wind Amt	Wind Dir	Sea Amt	Sea Dir
1960																									
1/25	1431	S	p	14	12.7	31.47	-	-	-	0.8	1.4	0.3	-	-	-	-	6	M.G.	6	1	-	2	NNE	2	NNE
-	-	M	p	7	12.7	31.58	-	-	-	1.0	1.6	0.2													
-	-	B	p	7	12.9	31.60	-	-	-	0.9	1.8	0.1													
2/17	1548	S	p	92	15.8	32.63	-	-	-	2.1	2.4	0.3	-	-	-	-	5	L.G.	8	1	-	0	-	0	
-	-	M	p	18.8	15.8	32.75	-	-	-	2.3	2.5	0.2													
-	-	B	p	7.6	15.9	33.06	-	-	-	2.4	3.4	0.6													
3/24	1501	S	p	80	17.3	30.32	-	-	-	5.3	5.8	0.2	-	-	-	-	12	L.G.	1	-	-	2	SW	2	
-	-	M	p	9.6	16.6	30.64	-	-	-	1.7	2.4	0.1													
-	-	B	p	14	16.4	31.56	-	-	-	1.6	2.5	0.4													
4/25	1346	S	p	0.8	24.4	32.68	9.95	2.37	1.7	-	4.3	0.2	-	-	-	-	13	L.G.	2	8	8	1	W	2	E
-	-	M	p	0.6	23.4	33.35	10.15	2.38	2.3	-	3.0	0.0													
-	-	B	p	0.0	23.1	33.73	10.05	2.40	2.7	-	2.7	0.2													
5/19	1044	S	0	-	25.3	32.23	9.80	2.36	5.7	-	-	0.3	-	-	-	-	9½	M.G.	5	1,8	7	0	-	0	
-	-	M	p	0.0	24.6	33.40	10.20	2.36	6.5	-	3.3	0.2													
-	-	B	0	-	24.2	33.68	10.30	2.40	8.3	-	3.4	0.4													
6/20	1140	S	0	-	27.9	33.75	10.60	2.41	8.2	-	4.9	0.4	-	-	-	-	9	L.G.	7	2,4,8	7	2	S	1	SW
-	-	M	0	-	27.8	34.02	10.65	2.42	8.7	-	4.0	0.1													
-	-	B	0	-	27.8	34.29	10.44	2.43	8.5	-	3.4	0.2													
7/11	1524	S	0	-	31.6	34.18	10.50	2.43	5.2	-	5.1	0.1	-	-	-	-	7	G.	6	5,8	7	4	WSW	3	SW
-	-	M	0	-	31.3	34.33	10.38	2.43	9.2	-	4.3	0.2													
-	-	B	0	-	31.0	34.49	10.53	2.44	9.7	-	4.0	0.2													
8/8	1546	S	P	2.4	29.4	30.41	9.05	2.27	0.8	-	6.1	0.0	-	-	-	-	13	D.G.	4	4	7	2	SW	1	SW
-	-	M	P	4.0	29.2	31.91	9.60	2.30	1.9	-	5.1	0.1													
-	-	B	P	10.0	29.2	31.35	9.37	2.29	1.8	-	4.9	0.1													
9/7	1546	S	P	0.1	29.3	30.79	9.25	2.25	4.8	-	5.3	0.1	-	-	-	-	10	D.G.	5	0,8,9	7	2	E	2	E
-	-	M	P	0.0	29.2	32.03	9.64	2.28	8.7	-	4.4	0.1													
-	-	B	P	0.0	29.2	32.29	9.81	2.30	10.3	-	4.0	0.4													
10/5	1457	S	0	-	28.4	29.49	8.88	2.00	2.0	-	10.2	0.1	-	-	-	-	8	D.G.	4	1,2,8	8	3	SE	2	SE
-	-	M	P	0.0	28.0	31.92	9.59	2.14	2.6	-	6.0	0.2													
-	-	B	0	-	28.0	32.16	9.60	2.19	3.8	-	4.9	0.3													
11/17	1326	S	0	-	24.0	32.16	9.67	2.37	3.2	-	6.7	0.1	-	-	-	50.0	9	G.	5	1,4,8	7	0	-	0	
-	-	M	0	-	23.4	32.72	10.00	2.40	3.3	-	4.5	0.2	-	-	-	0.2									
-	-	B	0	-	23.4	32.68	9.95	2.39	3.0	-	3.7	1.0	-	-	-	<0.1									
12/20	1725	S	0	-	13.8	32.43	9.85	2.47	2.3	-	1.9	0.2	-	-	-	26.8	-	M.G.	6	2,3,4,8	6	0	-	1	
-	-	M	0	-	14.0	32.56	9.95	2.46	2.0	-	2.2	0.5	-	-	-	0.0									
-	-	B	0	-	14.2	32.39	9.85	2.45	2.4	-	2.1	0.1	-	-	-	0.0									
1961																									
1/29	1508	S	0	-	14.5	32.90	10.03	2.41	3.0	-	5.3	0.1	-	-	-	-	5	M.G.	8	9	5	4	NW	1	N
-	-	M	0	-	14.4	33.40	10.15	2.45	3.4	-	2.9	0.1													
-	-	B	0	-	14.4	33.44	10.20	2.46	3.1	-	3.2	0.1													
2/20	1723	S	p	0.3	18.6	33.31	10.36	2.43	2.3	-	3.1	0.1	-	-	-	-	8	G.	6	1,2,8	7	4	S	1	S
-	-	M	p	0.4	18.4	33.55	10.36	2.36	3.2	-	2.1	0.1													
-	-	B	p	0.2	18.5	33.55	10.30	2.45	3.2	-	2.5	0.1													
3/6	1547	S	p	0.2	22.6	33.68	10.35	2.47	1.9	-	4.2	1.3	-	-	-	-	7	G.	4	1,2,8	7	5	S	2	S
-	-	M	p	0.0	22.4	34.02	10.41	2.47	2.6	-	2.5	0.3													
-	-	B	p	0.0	22.2	34.04	10.28	2.47	3.7	-	2.7	0.1													
5/9	1114	S	0	-	25.8	34.56	10.56	2.45	3.6	-	4.5	0.1	-	-	-	50.0	11	L.G.	3	1,6,8	7	4	S	1	S
-	-	M	0	-	25.5	34.88	10.70	2.47	4.1	-	3.7	0.7	-	-	-	0.7									
-	-	B	p	0.0	25.4	34.67	10.50	2.45	5.0	-	4.5	1.2	-	-	-	<0.1									
6/7	1009	S	0	-	27.8	34.52	10.61	2.47	4.3	-	5.7	1.8	-	-	-	50.0	13	D.G.	2	2,8	8	2	SE	1	SE
-	-	M	0	-	27.7	34.60	10.57	2.48	4.8	-	5.1	0.2	-	-	-	0.8									
-	-	B	0	-	27.7	34.69	10.64	2.48	4.2	-	4.6	0.6	-	-	-	<0.1									
7/12	1325	S	0	-	30.5	35.62	10.87	2.48	2.1	-	3.9	0.2	-	-	-	38.3	9	D.G.	6	2,8	7	4	S	2	SE
-	-	M	0	-	30.4	35.77	11.04	2.48	1.8	-	2.5	0.6	-	-	-	<0.1									
-	-	B	0	-	30.2	35.73	10.82	2.48	1.6	-	2.9	1.2	-	-	-	0.0									

STATION 13 — Depth of 22 feet — Lat. 27°38.2' N. — Long. 82°49.4' W.

Date	Time	Depth	Gymnodinium breve C	Gymnodinium breve M	°C	Sal	Ca	Alk	Si	Phosphorus PO_4 In	Phosphorus PO_4 Tot	Nitrogen NO_3 NO_2-N	Nitrogen NH_3	Nitrogen Org	Water In	Water Light transm	Water Transp	Color	CA	Sky CT	Sky Vi	Wind Amt	Wind Dir	Sea Amt	Sea Dir
1960																									
1/12	1443	S	P	0.0	21.1	31.91	-	-	-	3.7	4.5	0.0	-	-	-	-	10	M.G.	2	1	-	0	-	0	-
-	-	M	0	-	19.6	33.10	-	-	-	1.8	2.6	0.1													
-	-	B	0	-	19.6	33.26	-	-	-	1.6	2.0	0.2													
2/23	1421	S	P	140	15.2	32.66	-	-	-	1.2	1.8	0.1	-	-	-	-	4½	M.G.	6	1	-	4	N	2	NW
-	-	M	P	40	15.1	32.79	-	-	-	1.2	1.5	0.2													
-	-	B	P	18	15.0	33.08	-	-	-	1.1	1.6	0.2													
3/24	1305	S	P	240	18.6	28.84	-	-	-	0.4	0.6	0.1	-	-	-	-	10	L.G.	1	-	-	1	S	0	-
-	-	M	P	13.2	16.3	32.52	-	-	-	0.7	0.7	0.1													
-	-	B	P	4	16.0	32.81	-	-	-	0.6	0.9	0.1													
4/25	1318	S	P	0.0	24.9	33.48	10.06	2.35	1.8	-	2.8	0.1	-	-	-	-	15½	L.G.	2	8	8	1	W	2	E
-	-	M	P	0.1	23.0	33.68	10.11	2.37	1.9	-	2.5	0.1													
-	-	B	P	0.0	22.7	34.09	10.32	2.41	3.5	-	1.9	0.1													
5/19	1017	S	P	0.1	25.6	33.42	10.11	2.39	5.4	-	3.0	0.2	-	-	-	-	14	L.G.	4	1,8	6	0	-	0	-
-	-	M	0	-	25.0	33.42	10.20	2.41	2.5	-	2.0	0.4													
-	-	B	0	-	24.6	34.13	10.40	2.40	3.8	-	1.7	0.2													
6/20	1115	S	0	-	27.9	33.87	10.28	2.41	9.3	-	4.2	0.4	-	-	-	-	10	L.G.	7	2,4,8	7	2	S	1	SW
-	-	M	0	-	27.8	33.93	10.35	2.41	9.4	-	4.3	0.2													
-	-	B	0	-	27.7	34.04	10.54	2.42	11.2	-	4.1	0.1													
7/11	1501	S	P	0.2	31.2	34.45	10.44	2.42	9.3	-	3.7	0.1	-	-	-	-	8	M.G.	6	5,8	7	4	WSW	3	SW
-	-	M	P	0.0	31.1	34.42	10.60	2.42	10.1	-	3.8	0.2													
-	-	B	P	0.0	30.9	34.45	10.47	2.42	9.3	-	3.8	0.5													
8/8	1448	S	P	1	30.0	32.97	10.03	2.34	1.8	-	1.7	0.1	-	-	-	-	12½	D.G.	3	8,9	7	2	SW	1	SW
-	-	M	P	0.3	29.2	32.92	10.03	2.34	0.7	-	1.5	0.0													
-	-	B	P	0.5	29.1	32.90	9.95	2.34	0.8	-	2.0	0.1													
9/7	1521	S	P	0.8	29.4	31.60	9.55	2.26	6.3	-	4.6	0.3	-	-	-	-	12	D.G.	5	0,8,9	7	2	E	2	E
-	-	M	P	0.1	29.2	32.66	9.65	2.34	11.9	-	3.1	0.1													
-	-	B	0	-	29.2	32.74	9.87	2.34	14.5	-	3.1	0.2													
10/5	1431	S	P	0.0	28.7	31.04	9.34	2.22	2.0	-	7.6	0.3	-	-	-	-	9	D.G.	4	1,2,8	7	3	SE	2	SE
-	-	M	0	-	28.2	32.50	9.84	2.34	3.7	-	4.4	0.1													
-	-	B	0	-	28.2	32.68	10.00	2.39	5.9	-	4.5	0.2													
11/15	2310	S	0	-	23.0	33.57	10.15	2.39	1.6	-	1.2	0.4	-	-	-	-	-	-	-	-	-	4	E	2	E
-	-	M	0	-	22.7	33.57	10.05	2.40	1.5	-	1.0	0.3													
-	-	B	0	-	22.8	33.60	10.15	2.38	1.5	-	1.0	0.2													
12/20	1700	S	0	-	24.6	32.47	10.01	2.44	2.1	-	1.2	0.6	-	-	-	40.8	-	M.G.	6	2,3,4,8	7	0	-	1	-
-	-	M	0	-	13.9	32.43	9.87	2.46	2.3	-	1.3	0.4	-	-	-	12.1									
-	-	B	0	-	14.0	32.65	9.90	2.47	2.0	-	1.5	0.2	-	-	-	1.2									
1961																									
1/29	1438	S	0	-	14.5	33.37	10.19	2.46	3.8	-	3.8	0.1	-	-	-	-	5	M.G.	8	9	5	4	N	1	N
-	-	M	0	-	14.4	33.44	10.20	2.49	7.4	-	3.8	0.2													
-	-	B	0	-	14.3	33.89	10.30	2.48	5.8	-	2.8	0.2													
2/21	1807	S	P	0.0	19.4	33.98	10.34	2.39	1.3	-	1.8	0.2	-	-	-	-	10½	D.G.	6	1,2,8	6	1	SSW	1	SSW
-	-	M	P	0.2	18.3	33.87	10.40	2.38	2.5	-	2.0	0.2													
-	-	B	P	0.1	17.7	33.75	10.32	2.45	5.9	-	2.8	0.2													
3/5	1520	S	P	0.1	22.2	34.18	10.40	2.46	3.6	-	2.3	0.0	-	-	-	-	10	L.G.	5	0,1,8	7	3	SW	1	SW
-	-	M	P	0.1	21.7	34.18	10.45	2.46	2.7	-	2.3	1.8													
-	-	B	P	0.4	21.4	34.20	10.40	2.48	3.6	-	2.5	0.4													
5/16	1422	S	0	-	26.4	34.88	10.64	2.46	2.1	-	2.1	0.2	-	-	-	62.5	17	G.	2	1,2	8	3	NW	1	NW
-	-	M	0	-	25.7	34.88	10.66	2.46	1.6	-	2.2	0.2	-	-	-	29.2									
-	-	B	0	-	25.7	35.03	10.66	2.46	2.0	-	2.0	1.0	-	-	-	17.7									
6/6	0948	S	0	-	27.5	34.69	10.52	2.47	4.8	-	3.9	0.3	-	-	-	50.0	12	G.	2	1,2,8	7	3	SE	1	SE
-	-	M	0	-	27.3	34.69	10.60	2.47	5.4	-	3.9	0.4	-	-	-	27.5									
-	-	B	0	-	27.3	34.69	10.57	2.47	4.9	-	3.7	0.6	-	-	-	8.8									
7/11	1234	S	0	-	30.7	35.37	10.78	2.48	1.3	-	5.2	0.4	-	-	-	-	8½	G.	3	2,3	7	4	S	2	S
-	-	M	0	-	30.5	35.44	10.70	2.48	2.1	-	5.4	0.2													
-	-	B	0	-	30.4	35.44	10.84	2.48	2.2	-	5.5	0.2													

STATION 14 Depth of 22 feet Lat. 27°37.7' N. Long. 82°50' W.

Date	Time	Depth	Gymnodinium breve C	Gymnodinium breve M	°C	Sal	Ca	Alk	Si	Phosphorus PO_4 In	Phosphorus PO_4 Tot	Nitrogen NO_3 NO_2-N	Nitrogen NH_3	Nitrogen Org	Nitrogen In	Light transm	Water Transp	Color	Sky CA	Sky CT	Sky Vi	Wind Amt	Wind Dir	Sea Amt	Sea Dir
1960																									
1/12	1431	S	P	0.0	21.0	31.87	-	-	-	3.8	4.5	0.3	-	-	-	-	7½	M.G.	2	1	-	0	-	0	-
-	-	M	0	-	19.4	33.37	-	-	-	1.3	2.0	0.1													
-	-	B	0	-	19.5	33.40	-	-	-	1.5	1.8	0.1													
2/23	1406	S	P	50	15.2	32.43	-	-	-	1.9	2.2	0.1	-	-	-	-	5	M.G.	6	1	-	3	NNE	2	NE
-	-	M	P	20	15.0	32.97	-	-	-	1.0	1.4	0.2													
-	-	B	P	13	15.0	33.19	-	-	-	1.1	1.5	0.1													
3/24	1318	S	P	30	18.7	29.07	-	-	-	2.8	3.9	0.1	-	-	-	-	6	L.G.	1	-	-	1	SW	2	W
-	-	M	P	12	16.0	32.56	-	-	-	0.4	1.0	0.2													
-	-	B	P	18	16.0	32.92	-	-	-	0.8	1.6	0.3													
4/25	1302	S	P	2	23.8	33.48	10.16	2.39	1.9	-	2.7	0.0	1.2	-	-	-	12	M.G.	2	8	8	1	W	2	E
-	-	M	P	0.6	22.7	34.13	10.25	2.42	3.0	-	1.7	0.0													
-	-	B	P	0.2	22.8	34.18	10.40	2.40	3.3	-	1.7	0.1													
5/19	1006	S	P	0.0	25.1	33.26	10.06	2.40	5.5	-	3.4	0.2	1.2	-	-	-	10	L.G.	4	8	7	0	-	0	
-	-	M	0	-	24.8	33.96	10.24	2.40	3.1	-	1.7	0.3													
-	-	B	0	-	24.4	34.14	10.24	2.40	4.1	-	1.7	0.2													
6/20	1106	S	0	-	27.7	34.38	10.44	2.43	9.1	-	3.0	0.3	-	-	-	-	13	L.G.	7	2,4,8	7	2	S	1	SW
-	-	M	0	-	27.7	34.38	10.46	2.42	9.1	-	3.0	0.2													
-	-	B	0	-	27.7	34.38	10.25	2.42	10.5	-	3.0	0.3													
7/11	1448	S	P	0.1	31.3	34.42	10.50	2.41	10.1	-	3.8	0.1	2.4	-	-	-	7	M.G.	6	5,8	7	4	WSW	3	SW
-	-	M	P	0.0	31.2	34.42	10.44	2.42	13.5	-	3.8	0.3													
-	-	B	P	0.0	31.0	34.45	10.58	2.42	9.3	-	4.0	0.4													
8/8	1430	S	P	1	30.0	33.24	10.15	2.33	1.3	-	1.4	0.1	4.1	-	-	-	13½	D.G.	3	8	7	2	SW	1	SW
-	-	M	P	5	29.3	33.26	10.03	2.37	1.1	-	1.2	0.1													
-	-	B	P	0.6	29.2	33.26	10.12	2.36	1.3	-	1.8	0.1													
9/7	1506	S	P	0.9	29.5	32.07	9.70	2.26	6.8	-	3.2	0.1	2.4	-	-	-	13	D.G.	5	0,8,9	;	3	E	2	E
-	-	M	P	0.3	29.2	32.86	9.96	2.31	10.4	-	1.9	0.2													
-	-	B	0	-	29.2	32.94	9.95	2.32	13.0	-	2.0	0.2													
10/5	1417	S	0	-	28.5	31.49	9.54	2.30	1.6	-	6.4	1.1	0.6	-	-	-	9½	D.G.	4	1,2,8	7	3	SE	2	SE
-	-	M	0	-	28.2	32.90	9.78	2.37	3.6	-	3.0	0.1													
-	-	B	P	0.0	28.3	33.17	9.98	2.37	5.9	-	3.4	0.2													
11/15	2254	S	0	-	23.0	33.69	10.02	2.39	1.8	-	1.1	0.1	4.7	-	-	-	-	-	-	-	-	4	E	2	E
-	-	M	0	-	22.7	33.60	10.10	2.37	1.5	-	1.1	0.1													
-	-	B	0	-	22.8	33.64	10.10	2.37	1.7	-	0.9	0.3													
12/20	1647	S	0	-	14.3	32.32	9.92	2.44	1.8	-	1.3	0.2	1.2	-	-	43.8	-	M.G.	6	2,3,4,8	7	0	-	1	
-	-	M	0	-	13.7	32.57	9.82	2.47	2.0	-	2.4	0.3	-	-	-	6.4									
-	-	B	0	-	13.5	32.57	10.01	2.48	2.8	-	3.0	0.3	-	-	-	0.4									
1961																									
1/29	1423	S	0	-	14.4	33.31	10.20	2.44	3.4	-	3.8	0.1	-	16.0	2.3	-	4½	M.G.	8	9	5	4	N	1	NE
-	-	M	0	-	14.3	33.57	10.15	2.45	2.8	-	3.3	0.2													
-	-	B	0	-	14.4	33.91	10.32	2.45	3.7	-	1.7	0.1													
2/21	1749	S	P	0.0	18.9	34.00	10.55	2.39	1.4	-	1.1	0.5	0.6	12.9	0.9	-	14	D.G.	5	1,2,8	6	2	SSW	1	SSW
-	-	M	P	0.3	18.9	34.00	10.47	2.39	2.6	-	1.2	0.2													
-	-	B	P	0.3	18.9	33.98	10.40	2.38	2.1	-	1.3	0.1													
3/5	1509	S	P	0.0	22.2	34.47	10.55	2.45	3.4	-	1.3	0.0	1.2	11.1	2.9	-	10	L.G.	5	0,1,8	7	2	NW	1	NW
-	-	M	P	).0	21.5	34.40	10.45	2.46	3.3	-	1.5	0.5													
-	-	B	P	).2	21.4	34.47	10.50	2.45	3.6	-	1.3	0.2													
5/16	1406	S	P	).0	26.5	34.81	10.71	2.48	1.9	-	2.1	0.0	-	13.7	0.7	62.0	18	G.	2.	1,2	8	3	NW	1	NW
-	-	M	0	-	25.9	34.81	10.70	2.46	2.9	-	2.2	0.0	-	-	-	38.0									
-	-	B	P	0.0	25.6	34.88	10.75	2.46	1.7	-	2.3	0.2	-	-	-	18.5									
6/6	0925	S	0	-	27.5	34.87	10.64	2.48	4.7	-	2.9	1.1	-	34.6	5.6	57.9	14	G.	2	1,2,8	7	3	SE	1	SE
-	-	M	0	-	27.4	34.90	10.64	2.47	6.1	-	2.9	0.6	-	-	-	28.9									
-	-	B	0	-	27.5	34.83	10.67	2.48	3.9	-	3.0	0.3	-	-	-	13.2									
7/11	1220	S	0	-	30.7	35.62	10.94	2.48	1.5	-	3.4	0.6	0.0	24.6	2.9	-	10	D.G.	3	2,8	7	4	S	2	S
-	-	M	0	-	30.4	85.62	10.80	2.48	1.3	-	3.3	0.4													
		B	0	-	30.4	35.62	10.86	2.48	2.2		3.5	0.1													

STATION 16 Depth of 23 feet Lat. 27°36' N. Long. 82°50' W.

Date	Time	Depth	Gymnodinium breve C	Gymnodinium breve M	°C	Sal	Ca	Alk	Si	Phosphorus PO_4 In	Phosphorus PO_4 Tot	Nitrogen NO_3 NO_2-N	Nitrogen NH_3	Nitrogen Org	Water In	Water Light transm	Water Transp	Water Color	Sky CA	Sky CT	Sky Vi	Wind Amt	Wind Dir	Sea Amt	Sea Dir
1960																									
1/12	1414	S	P	0.0	20.2	31.78	-	-	-	4.3	5.2	0.2	-	-	-	-	10½	L.G.	2	1	-	0	-	0	-
-	-	M	0	-	19.8	33.24	-	-	-	1.6	2.2	0.2													
-	-	B	0	-	19.6	33.62	-	-	-	1.2	1.7	0.3													
2/23	1350	S	P	110	15.2	32.09	-	-	-	2.4	3.0	0.1	-	-	-	-	5	M.G.	8	1	-	3	NNE	2	NW
-	-	M	P	29	15.0	32.25	-	-	-	2.2	2.7	0.3													
-	-	B	P	14	15.2	33.37	-	-	-	0.9	1.3	0.1													
3/24	1337	S	P	62	18.4	30.05	-	-	-	0.5	1.1	0.1	-	-	-	-	8	L.G.	1	-	-	2	SW	2	W
-	-	M	P	16.8	16.2	31.22	-	-	-	2.5	2.7	0.1													
-	-	B	P	15.2	16.0	32.61	-	-	-	0.9	1.0	0.1													
4/25	1242	S	P	8	24.1	34.09	10.16	2.35	2.6	-	1.6	0.0	-	-	-	-	15.5	L.G.	2	8	8	1	E	2	E
-	-	M	P	3	23.0	34.43	10.40	2.41	2.6	-	1.2	0.1													
-	-	B	P	2	23.0	34.43	10.40	2.38	2.7	-	1.1	0.1													
5/19	0951	S	0	-	25.2	32.99	9.94	2.40	6.5	-	4.5	0.3	-	-	-	-	9	M.G.	3	8	8	1	NE	0	-
-	-	M	0	-	24.5	33.75	10.13	2.34	5.6	-	2.6	0.2													
-	-	B	0	-	23.5	34.47	10.49	2.40	5.9	-	1.6	0.2													
6/20	1044	S	0	-	27.9	34.54	10.44	2.41	7.5	-	2.5	-	-	-	-	-	14	L.G.	7	8	7	4	S	1	SW
-	-	M	0	-	27.9	34.61	10.60	2.43	7.6	-	2.6	0.3													
-	-	B	0	-	27.9	34.54	10.44	2.43	7.3	-	2.5	0.4													
7/11	1427	S	0	-	30.4	34.51	10.44	2.43	5.4	-	3.4	0.1	-	-	-	-	10	G.	6	5,8	7	4	WSW	2	SW
-	-	M	0	-	30.9	34.36	10.67	2.42	3.9	-	3.1	0.2													
-	-	B	0	-	30.9	34.42	10.53	2.41	8.0	-	2.3	0.0													
8/8	1411	S	P	0.2	30.0	33.49	10.05	2.33	1.1	-	1.4	0.1	-	-	-	-	14½	D.G.	3	8	7	1	SW	1	SW
-	-	M	P	0.5	29.2	33.42	10.15	2.34	1.9	-	1.8	0.0													
-	-	B	P	3	29.1	33.42	10.10	2.35	1.1	-	1.5	0.1													
9/7	1445	S	P	0.3	29.4	32.74	9.94	2.29	8.2	-	1.9	0.2	-	-	-	-	13	Br.G.	5	0,8,9	7	2	E	2	E
-	-	M	P	0.7	29.2	32.90	9.94	2.30	9.6	-	1.6	0.1													
-	-	B	P	0.1	29.2	33.04	10.05	2.31	10.3	-	1.5	1.4													
10/15	1359	S	P	0.0	28.5	32.99	10.03	2.37	2.5	-	2.6	0.2	-	-	-	-	14	D.G.	3	1,2,8	8	3	SE	2	SE
-	-	M	P	0.0	28.4	32.94	9.95	2.37	2.6	-	2.6	0.1													
-	-	B	P	0.0	28.3	33.04	9.86	2.35	2.6	-	2.5	0.1													
11/15	2236	S	0	-	23.0	33.71	10.20	2.38	1.6	-	1.0	0.0	-	-	-	-	-	-	-	-	-	4	E	2	E
-	-	M	0	-	23.0	33.75	10.04	2.38	1.5	-	1.0	0.1													
-	-	B	0	-	22.8	33.82	10.15	2.38	1.8	-	1.0	0.1													
12/20	1630	S	P	0.0	14.9	32.75	10.06	2.43	2.4	-	1.1	0.3	-	-	-	44.1	-	M.G.	6	2,3,4,8	8	0	-	1	
-	-	M	P	0.0	14.4	32.75	10.00	2.43	1.3	-	0.9	0.2	-	-	-	17.6									
-	-	B	0	-	14.5	32.92	10.05	2.44	1.8	-	0.9	0.3	-	-	-	4.5									
1961																									
1/29	1405	S	0	-	14.6	33.93	10.39	2.42	3.2	-	2.3	0.1	-	-	-	-	5	M.G.	8	9	5	4	N	1	NE
-	-	M	0	-	14.6	34.07	10.33	2.43	2.2	-	2.2	0.1													
-	-	B	0	-	14.5	34.23	10.36	2.46	3.2	-	1.7	0.2													
2/21	1734	S	P	0.0	19.2	34.00	10.37	2.38	1.4	-	1.2	0.2	-	-	-	-	16	D.G.	5	1,2,8	7	2	SSW	1	SSW
-	-	M	P	0.1	18.9	34.05	10.40	2.39	1.3	-	1.6	0.1													
-	-	B	P	0.1	18.8	33.93	10.40	2.39	1.1		1.6	0.1													
3/5	1452	S	P	0.0	22.0	34.42	10.47	2.45	3.3	-	1.1	0.2	-	-	-	-	-	L.G.	5	0,1,8	7	2	NW	1	NW
-	-	M	P	0.0	21.2	34.42	10.54	2.46	5.2	-	1.4	0.1													
-	-	B	P	0.0	21.2	34.47	10.48	2.44	2.9	-	1.3	0.2													
5/16	1347	S	0	-	26.7	34.63	10.65	2.46	1.2	-	2.5	0.0	-	-	-	65.4	11	G.	2	1,2	8	3	NW	1	NW
-	-	M	0	-	25.7	34.97	10.67	2.46	1.4	-	2.1	0.2	-	-	-	34.6									
-	-	B	0	-	25.6	35.25	10.85	2.46	2.0	-	1.6	0.1	-	-	-	19.2									
6/6	0907	S	0	-	27.1	35.01	10.72	2.47	5.0	-	2.4	0.2	-	-	-	58.8	16	G.	2	1,2,8	7	3	SE	1	SE
-	-	M	0	-	27.0	34.99	10.60	2.47	4.7	-	2.4	0.4	-	-	-	29.4									
-	-	B	0	-	27.0	34.99	10.70	2.47	5.1	-	2.6	0.6	-	-	-	11.8									
7/11	1255	S	0	-	30.6	35.73	10.90	2.48	2.2	-	2.4	1.3	-	-	-	-	10	D.G.	3	1,8	7	4	S	2	S
-	-	M	0	-	30.6	35.70	10.83	2.48	2.9	-	2.8	0.6													
-	-	B	0	-	30.4	35.73	10.91	2.48	2.1	-	2.3	1.8													

STATION 17 Depth of 28 feet Lat. 27°34' N. Long. 82°50' W.

Date	Time	Depth	Gymnodinium breve C	Gymnodinium breve M	°C	Sal	Ca	Alk	Si	Phosphorus PO_4 In	Phosphorus PO_4 Tot	Nitrogen NO_3 NO_2-N	Nitrogen NH_3	Nitrogen Org	Nitrogen In	Light transm	Water Transp	Water Color	Sky CA	Sky CT	Wind Vi	Wind Amt	Wind Dir	Sea Amt	Sea Dir
1960																									
1/12	1359	S	0	-	20.6	32.83	-	-	-	2.3	2.9	0.0	-	-	-	-	12	L.G.	2	1	-	1	NE	0	
-	-	M	0	-	19.5	33.44	-	-	-	1.4	1.9	0.2				-									
-	-	B	0	-	19.7	34.04	-	-	-	0.9	1.3	0.2													
2/23	1334	S	P	190	15.2	32.84	-	-	-	1.1	1.5	0.3	-	-	-	-	7	M.G.	8	1	-	3	NE	2	NW
-	-	M	P	13	15.1	32.95	-	-	-	1.1	1.4	0.3													
-	-	B	P	41	15.3	33.58	-	-	-	0.8	1.1	0.1													
3/24	1359	S	P	17.2	18.5	31.56	-	-	-	2.9	3.4	0.1	-	-	-	-	12	L.G.	1	-	-	2	SW	2	W
-	-	M	P	4.8	16.1	31.65	-	-	-	1.2	1.8	0.1													
-	-	B	P	4	15.9	33.69	-	-	-	0.2	0.9	0.1													
4/25	1224	S	P	3	23.8	34.58	10.20	2.40	3.2	-	0.7	0.5	-	-	-	-	17	D.G.	2	8	8	1	E	2	E
-	-	M	P	2	23.0	34.58	10.44	2.37	3.5	-	0.8	0.0													
-	-	B	P	2	23.0	34.58	10.32	2.41	3.3	-	0.9	0.2													
5/19	0936	S	0	-	25.1	33.15	10.41	2.39	5.4	-	3.9	0.1	-	-	-	-	15½	G.	3	8	8	1	NE	0	-
-	-	M	0	-	24.0	34.11	10.27	2.39	4.1	-	1.7	0.2													
-	-	B	P	0.0	23.1	34.99	9.98	2.43	5.3	-	1.5	0.2													
6/20	1528	S	0	-	27.9	34.67	10.50	2.43	8.0	-	2.6	0.5	-	-	-	-	14	L.G.	7	8	7	4	S	2	SW
-	-	M	0	-	27.9	34.63	10.40	2.44	7.2	-	2.6	0.1													
-	-	B	0	-	27.8	34.63	10.52	2.44	7.4	-	2.5	0.1													
7/11	1409	S	0	-	31.3	35.05	10.62	2.42	3.6	-	2.1	0.1	-	-	-	-	8	D.G.	6	5,8	7	4	WSW	2	SW
-	-	M	0	-	31.1	35.07	10.57	2.43	8.5	-	2.0	0.2													
-	-	B	0	-	30.7	35.07	10.73	2.44	6.6	-	1.6	0.2													
8/8	1342	S	P	2.8	30.0	33.77	10.10	2.35	1.4	-	1.3	0.1	-	-	-	-	13	D.G.	3	8	7	1	SW	1	SW
-	-	M	P	7	29.1	33.69	10.20	2.37	0.8	-	0.9	0.0													
-	-	B	P	7	29.0	33.80	10.27	2.37	1.3	-	1.2	0.0													
9/7	1418	S	P	0.2	29.6	33.35	10.20	2.31	7.4	-	1.0	0.2	-	-	-	-	19	D.G.	5	0,8,9	7	2	E	2	E
-	-	M	P	0.0	29.4	33.35	10.15	2.31	7.3	-	1.1	0.4													
-	-	B	P	0.0	29.3	33.44	10.05	2.31	7.2	-	1.1	0.2													
10/5	1342	S	0	-	29.8	33.80	10.15	2.40	1.8	-	1.0	0.2	-	-	-	-	18	D.G.	3	1,2,8	8	3	SE	2	SE
-	-	M	0	-	29.4	33.75	10.15	2.40	2.0	-	1.2	0.1													
-	-	B	0	-	29.5	33.87	10.15	2.40	1.7	-	1.2	0.2													
11/15	2204	S	0	-	23.0	32.48	9.90	2.38	1.2	-	4.8	0.4	-	-	-	-	-	-	-	-	-	4	E	2	E
-	-	M	0	-	22.9	32.54	9.95	2.38	1.2	-	4.5	0.1													
-	-	B	0	-	23.7	34.49	10.34	2.40	2.7	-	0.9	0.3													
12/20	1612	S	0	-	14.5	32.63	9.80	2.43	1.8	-	2.1	0.4	-	-	-	37.5	-	M.G.	6	2,3,4,8	8	0	-	1	W
-	-	M	0	-	14.4	32.92	10.03	2.46	1.9	-	1.6	0.2	-	-	-	7.2									
-	-	B	0	-	14.6	33.28	10.10	2.46	1.6	-	1.0	0.2	-	-	-	0.6									
1961																									
1/29	1348	S	0	-	14.6	34.25	10.34	2.44	2.2	-	1.5	0.2	-	-	-	-	5	M.G.	8	9	4	3	N	1	NE
-	-	M	P	0.0	14.6	34.25	10.46	2.44	2.2	-	1.6	0.1													
-	-	B	0	-	14.5	34.33	10.33	2.47	2.3	-	1.3	0.1													
2/21	1719	S	P	0.1	19.1	34.05	10.55	2.38	1.0	-	1.5	0.2	-	-	-	-	26	D.G.	5	1,2,8	8	2	SSW	1	SSW
-	-	M	P	-	18.4	34.11	10.38	2.40	1.4	-	1.6	0.7													
-	-	B	P	0.1	18.4	34.00	10.50	2.38	2.0	-	1.5	0.1													
3/5	1436	S	P	0.0	21.7	34.56	10.47	2.44	3.6	-	1.3	1.3	-	-	-	-	14	L.G.	4	0,1,8	7	2	SW	1	SW
-	-	M	P	0.1	21.1	34.40	10.55	2.41	3.0	-	1.1	0.1													
-	-	B	P	0.0	21.1	34.43	10.55	2.42	3.3	-	1.4	0.2													
5/16	1330	S	0	-	26.6	34.83	10.61	2.46	1.7	-	2.3	0.0	-	-	-	55.8	12	G.	2	1,2	8	3	NW	1	NW
-	-	M	0	-	25.4	34.83	10.55	2.45	2.0	-	2.4	0.1	-	-	-	38.5									
-	-	B	0	-	25.4	34.74	10.65	2.45	3.2	-	2.6	0.2	-	-	-	19.7									
6/6	0842	S	0	-	26.9	35.21	10.65	2.47	3.0	-	1.6	0.2	-	-	-	52.9	24	G.	2	1,2,8	7	3	SE	1	SE
-	-	M	0	-	26.9	35.21	10.69	2.47	3.6	-	1.7	0.4	-	-	-	17.6									
-	-	B	0	-	26.8	35.21	10.67	2.47	4.3	-	1.7	0.6	-	-	-	11.8									
7/11	1135	S	0	-	30.4	35.79	10.90	2.47	0.5	-	2.0	0.6	-	-	-	-	14	D.G.	3	1,2,8	7	4	S	2	S
-	-	M	0	-	30.3	35.79	10.82	2.48	1.0	-	1.7	0.2													
-	-	B	0	-	30.2	35.79	10.80	2.48	2.1	-	1.9	1.4													

STATION 19 — Depth of 36 feet — Lat. 27°32.2' N. — Long. 82°50' W.

Date	Time	Depth	Gymnodinium breve C	Gymnodinium breve M	°C	Sal	Ca	Alk	Si	Phosphorus PO_4 In	Phosphorus PO_4 Tot	Nitrogen NO_3 NO_2-N	Nitrogen NH_3	Nitrogen Org	Nitrogen In	Light transm	Water Transp	Color	Sky CA	Sky CT	Sky Vi	Wind Amt	Wind Dir	Sea Amt	Sea Dir
1960																									
1/12	1344	S	0	-	20.2	33.40	-	-	-	1.2	2.1	0.3	-	-	-	-	16½	L.G.	2	1	-	1	NE	0	
-	-	M	0	-	19.6	34.02	-	-	-	0.9	1.1	0.1													
-	-	B	0	-	20.0	34.29	-	-	-	0.6	0.9	0.3													
2/23	1312	S	P	380	15.2	32.27	-	-	-	2.0	2.3	0.2	-	-	-	-	5	M.G.	8	1	-	3	NE	2	NW
-	-	M	P	60	15.0	32.84	-	-	-	1.4	1.7	0.1													
-	-	B	P	33	15.0	33.13	-	-	-	1.2	1.4	0.1													
3/24	1414	S	P	52	18.7	32.03	-	-	-	1.8	2.1	0.1	-	-	-	-	8	L.G.	1	-	-	1	SW	2	W
-	-	M	P	12	15.9	33.96	-	-	-	0.1	0.7	0.1													
-	-	B	P	11.2	15.8	34.18	-	-	-	0.2	0.8	0.2													
4/25	1203	S	P	0.8	23.5	34.47	10.43	2.27	3.0	-	0.7	0.1	-	-	-	-	25	L.G.	2	8	8	2	E	2	E
-	-	M	P	0.2	23.0	34.52	10.45	2.40	3.1	-	0.8	0.2													
-	-	B	P	0.2	23.0	34.58	10.42	2.40	3.3	-	0.8	0.3													
5/19	0920	S	P	0.0	25.2	33.23	9.90	2.38	5.1	-	4.2	0.1	0.6	-	-	-	16	G.	3	8	7	1	NE	0	
-	-	M	P	0.0	23.9	34.85	10.44	2.41	3.1	-	1.4	0.3													
-	-	B	0	-	23.2	33.35	9.45	2.38	5.4	-	3.9	0.2													
6/20	1009	S	0	-	27.8	34.81	10.74	2.44	6.4	-	1.9	0.3	-	-	-	-	19	L.G.	7	2,8	7	4	S	2	SW
-	-	M	0	-	27.7	34.72	10.66	2.44	6.6	-	2.2	0.2													
-	-	B	0	-	27.7	34.74	10.51	2.44	6.6	-	2.0	0.1													
7/11	1351	S	0	-	31.1	35.19	10.73	2.44	4.2	-	1.6	0.1	1.2	-	-	-	12	D.G.	6	5,8	7	4	SW	2	SW
-	-	M	0	-	30.8	35.16	10.71	2.41	4.5	-	1.8	"													
-	-	B	0	-	30.7	35.16	10.80	2.42	3.9	-	1.6	0.2													
8/8	1308	S	P	2.6	29.7	33.84	10.33	2.37	1.5	-	1.2	0.1	6.5	-	-	-	13	D.G.	3	8	7	1	SW	1	SW
-	-	M	P	7	29.0	33.86	10.25	2.38	1.2	-	1.3	0.3													
-	-	B	P	1	29.1	34.11	10.34	2.37	2.8	-	0.9	0.1													
9/7	1358	S	P	0.1	29.4	33.30	10.10	2.34	6.4	-	1.2	0.3	4.7	-	-	-	20	D.G.	5	0,8,9	7	2	E	2	E
-	-	M	0	-	29.4	33.30	9.98	2.34	6.6	-	1.3	0.1													
		B	0	-	29.3	33.35	10.15	2.30	7.5	-	1.1	0.3													
10/5	1323	S	0	-	28.6	33.82	10.20	2.42	2.3	-	1.0	0.1	2.9	-	-	-	29	D.G.	3	1,2,8	7	3	SE	2	SE
-	-	M	P	0.0	28.3	33.82	10.25	2.41	1.9	-	0.9	0.2													
-	-	B	0	-	28.3	33.78	10.21	2.39	3.0	-	1.1	0.4													
11/15	2136	S	0	-	23.2	32.90	9.90	2.42	1.5	-	3.8	0.6	10.6	-	-	-	-	-	-	-	-	4	E	2	E
-	-	M	0	-	23.2	33.19	10.02	2.42	1.2	-	2.7	1.1													
-	-	B	0	-	23.1	33.35	10.01	2.38	1.2	-	2.5	0.1													
12/20	1553	S	0	-	13.2	33.15	10.09	2.42	1.4	-	1.3	0.6	0.6	-	-	41.7	-	M.G.	5	1,2,3,4	8	1	WSW	1	W
-	-	M	0	-	14.8	33.68	10.30	2.43	1.0	-	0.8	0.3	-	-	-	7.6									
-	-	B	0	-	15.4	33.91	10.30	2.46	1.2	-	1.0	0.3	-	-	-	0.4									
1961																									
1/29	1327	S	0	-	14.7	34.42	10.44	2.42	1.8	-	1.0	0.3	2.4	7.1	2.6	-	6	M.G.	8	9	4	3	NE	1	NE
-	-	M	0	-	14.7	34.42	10.44	2.42	1.0	-	1.1	0.1													
-	-	B	0	-	14.7	34.47	10.48	2.41	1.8	-	1.5	0.2													
2/21	1703	S	P	0.0	19.4	34.16	10.50	2.40	1.9	-	1.2	"	-	12.0	0.4	-	27	D.G.	4	2,4	8	2	SSW	1	SSW
-	-	M	P	0.0	18.2	34.05	10.45	2.41	1.9	-	1.3	0.1													
-	-	B	P	0.2	18.2	34.05	10.41	2.41	1.9	-	1.5	0.2													
3/5	1421	S	P	0.0	21.2	34.56	10.40	2.41	2.9	-	1.8	0.1	-	3.4	0.0	-	16	G.	4	0,1,8	7	2	SW	1	SW
-	-	M	P	0.1	21.2	34.51	10.44	2.43	2.7	-	0.9	0.2													
-	-	B	P	0.0	21.1	34.56	10.50	2.44	3.9	-	0.9	0.1													
5/16	1312	S	0	-	25.8	34.47	10.68	2.47	4.3	-	4.8	0.1	2.4	19.7	2.3	57.4	14	G.	2	1,2	8	3	NW	1	NW
-	-	M	0	-	25.3	35.50	10.90	2.45	2.6	-	0.9	0.4	-	-	-	20.4									
-	-	B	0	-	25.3	35.50	10.76	2.47	2.0	-	1.0	0.3	-	-	-	11.6									
6/6	0826	S	0	-	26.8	35.30	10.69	2.47	3.5	-	1.6	0.6	-	>44.7	2.1	62.1	30	G.	2	1,2,8	7	3	SE	1	SE
-	-	M	0	-	26.8	35.30	10.65	2.46	2.8	-	1.8	1.0	-	-	-	25.9									
-	-	B	0	-	26.9	35.25	10.65	2.47	2.6	-	1.6	0.4	-	-	-	12.1									
7/11	1116	S	0	-	30.4	35.79	10.90	2.47	0.6	-	1.6	-	-	19.6	0.0	-	17	G.	3	2,3,8	7	4	S	2	S
-	-	M	0	-	30.2	35.79	10.80	2.48	1.6	-	1.9	0.0													
-	-	B	0	-	30.2	35.88	10.80	2.47	2.1	-	1.8	1.1													

STATION 20 Depth of 32 feet Lat. 27°31.8' N. Long. 82°49.4' W.

Date	Time	Depth	Gymnodinium breve C	Gymnodinium breve M	°C	Sal	Ca	Alk	Si	Phosphorus PO_4 In	Phosphorus PO_4 Tot	Nitrogen NO_3 NO_2-N	Nitrogen NH_3 Org	Nitrogen In	Light transm	Water Transp	Color	Sky CA	Sky CT	Sky Vi	Wind Amt	Wind Dir	Sea Amt	Sea Dir
1960																								
1/20	1331	S	p	0.0	20.0	33.68	-	-	-	1.1	1.5	0.1	-	-	-	-	16½	L.G.	2	1	-	2	NE	2	NE
-	-	M	p	0.0	19.6	33.68	-	-	-	1.1	1.2	0.3												
-	-	B	0	-	19.7	34.13	-	-	-	1.2	1.0	0.1												
2/23	1256	S	p	121	15.1	32.52	-	-	-	1.6	2.0	0.2	-	-	-	-	5	M.G.	8	1	-	3	NE	2	NW
-	-	M	p	13	15.0	32.92	-	-	-	1.4	1.5	0.2												
-	-	B	p	10	15.0	33.04	-	-	-	1.2	1.6	0.2												
3/24	1429	S	p	80	19.1	31.15	-	-	-	2.7	2.7	0.2	-	-	-	-	12	L.G.	1	-	-	1	SW	2	W
-	-	M	p	4.8	15.9	33.78	-	-	-	0.1	0.7	0.1												
-	-	B	p	12.4	15.9	33.91	-	-	-	0.3	0.7	0.1												
4/25	1146	S	p	3.4	23.8	34.45	10.73	2.32	3.2	-	0.7	0.1	-	-	-	-	21½	L.G.	2	8	8	2	E	2	E
-	-	M	p	2.2	23.0	34.52	10.25	2.29	3.0	-	0.8	0.1												
-	-	B	p	0.3	23.0	34.54	10.53	2.37	3.4	-	0.8	0.2												
5/19	0908	S	0	-	25.1	33.44	9.63	2.32	5.0	-	3.3	0.2	-	-	-	-	15	G.	3	8	7	1	NE	0	
-	-	M	0	-	24.2	33.93	10.20	2.39	3.9	-	2.1	0.3												
-	-	B	0	-	23.4	35.01	10.46	2.41	2.8	-	1.1	0.4												
6/20	1000	S	0	-	27.7	34.81	10.60	2.44	7.1	-	1.6	0.3	-	-	-	-	17	D.G.	7	2,8	7	4	S	2	SW
-	-	M	0	-	27.7	34.83	10.80	2.42	7.2	-	2.4	0.2												
-	-	B	0	-	27.7	34.81	10.74	2.43	7.1	-	1.9	0.1												
7/11	1336	S	0	-	31.0	35.08	10.60	2.42	3.8	-	1.7	0.2	-	-	-	-	11	G.	6	5,8	7	4	SW	2	SW
-	-	M	0	-	30.7	35.16	10.67	2.41	3.5	-	1.8	0.4												
-	-	B	0	-	30.6	35.16	10.90	2.43	4.0	-	1.4	0.1												
8/8	1246	S	P	1.3	29.9	33.62	10.25	2.37	2.1	-	0.8	0.2	-	-	-	-	13	D.G.	3	8	7	1	SW	1	SW
-	-	M	P	4.7	29.0	33.77	10.30	2.37	1.8	-	1.0	0.0												
-	-	B	P	2.5	29.0	33.84	10.35	2.37	2.0	-	0.8	0.2												
9/7	1337	S	P	0.0	29.4	33.28	10.04	2.29	6.3	-	1.5	0.3	-	-	-	-	17½	D.G.	6	0,3,4,8,9	7	3	E	2	E
-	-	M	P	0.0	29.3	33.28	10.00	2.31	6.4	-	1.2	0.1												
-	-	B	0	-	29.3	33.25	10.00	2.34	6.7	-	1.1	0.1												
10/5	1306	S	0	-	28.6	33.78	9.45	2.22	2.0	-	1.2	0.3	-	-	-	-	13	D.G.	3	1,2,8	7	3	SE	2	SE
-	-	M	0	-	28.3	33.78	10.10	2.33	2.0	-	1.1	0.1												
-	-	B	0	-	28.3	33.82	10.13	2.40	2.2	-	1.0	0.2												
11/15	2118	S	0	-	23.1	33.65	9.86	2.33	1.5	-	4.5	0.1	-	-	-	-	-	-	-	-	-	4	E	2	E
-	-	M	0	-	23.5	32.72	9.83	2.37	1.7	-	4.3	0.2												
-	-	B	P	0.0	23.9	34.52	10.40	2.42	2.5	-	0.9	0.3												
12/20	1540	S	0	-	15.3	33.28	10.20	2.42	2.2	-	1.0	0.4	-	-	-	70.0	-	M.G.	5	2,3,4	8	2	WSW	1	W
-	-	M	0	-	15.0	33.44	10.07	2.45	1.2	-	1.0	0.5	-	-	-	9.5									
-	-	B	0	-	15.4	33.87	10.30	2.47	1.6	-	1.2	0.4												
1961																									
1/29	1315	S	0	-	14.8	34.34	10.35	2.40	1.4	-	1.7	0.2	-	-	-	-	-	M.G.	8	9	4	3	NE	1	NE
-	-	M	0	-	14.7	34.40	10.33	2.41	1.0	-	1.4	0.2												
-	-	B	0	-	14.7	34.42	10.43	2.45	1.3	-	1.7	0.2												
2/21	1653	S	P	0.0	19.4	34.22	10.40	2.42	0.9	-	1.3	0.2	-	-	-	-	27	D.G.	4	2,8	8	2	SSW	1	SSW
-	-	M	0	-	18.5	34.16	10.45	2.40	1.2	-	1.5	0.2												
-	-	B	P	0.1	18.0	34.16	10.45	2.41	1.3	-	1.5	0.2												
3/5	1402	S	P	0.0	21.8	34.47	10.56	2.44	3.3	-	0.9	1.1	-	-	-	-	18	G.	4	0,1,8	7	2	SW	1	SW
-	-	M	P	0.1	21.2	34.49	10.52	2.43	3.4	-	0.9	0.3												
-	-	B	P	0.0	21.2	34.51	10.54	2.44	2.9	-	1.0	1.5												
5/16	1254	S	0	-	26.6	34.72	10.70	2.47	2.7	-	3.3	0.0	-	-	-	53.7	14	G.	2	1,2	8	3	NW	1	NW
-	-	M	0	-	25.4	35.25	10.68	2.46	2.4	-	1.6	0.1	-	-	-	21.3									
-	-	B	0	-	25.4	34.92	10.60	2.46	2.3	-	3.1	0.2	-	-	-	15.3									
6/6	0808	S	0	-	26.9	35.25	10.72	2.47	3.1	-	1.8	0.9	-	-	-	60.0	26	G.	2	1,2,8	7	3	SE	1	SE
-	-	M	0	-	26.9	35.25	10.59	2.46	2.8	-	1.8	0.6	-	-	-	24.0									
-	-	B	0	-	26.9	35.25	10.59	2.47	2.7	-	1.7	0.5	-	-	-	16.0									
7/11	1054	S	0	-	30.2	35.79	10.70	2.44	1.1	-	2.0	1.5	-	-	-	-	15	G.	3	2,3,8	7	4	S	2	S
-	-	M	0	-	30.7	35.79	10.90	2.47	1.0	-	2.0	1.2												
-	-	B	0	-	30.7	35.79	10.80	2.47	1.1	-	1.9	2.2												

STATION 21A — Depth of 41 feet — Lat. 27°35.8' N. — Long. 82°52.2' W.

Date	Time	Depth	Gymnodinium breve C	Gymnodinium breve M	°C	Sal	Ca	Alk	Si	Phosphorus PO_4 In	Phosphorus PO_4 Tot	Nitrogen NO_3 NO_2-N	Nitrogen NH_3	Nitrogen Org	Nitrogen In	Light transm	Water Transp	Color	Sky CA	Sky CT	Sky Vi	Wind Amt	Wind Dir	Sea Amt	Sea Dir
1960																									
1/11	0934	S	P	0.1	19.5	33.17	-	-	-	1.8	1.9	0.4	-	-	-	-	17	D.G.	1	-	-	1	NE	1	NE
-	-	M	P	0.0	19.5	33.40	-	-	-	0.8	1.0	0.1													
-	-	B	P	0.0	19.5	34.04	-	-	-	0.5	1.1	0.8													
2/24	0928	S	P	130	15.8	33.53	-	-	-	0.3	0.9	0.2	-	-	-	-	7	M.G.	8	-	-	4	E	2	NW
-	-	M	P	90	15.0	33.62	-	-	-	0.6	0.9	0.1													
-	-	B	P	20	15.0	33.62	-	-	-	0.3	0.8	0.1													
3/23	0930	S	P	220	15.6	31.58	-	-	-	0.3	0.7	0.2	-	-	-	-	9	L.G.	0	-	-	2	SW	2	SW
-	-	M	P	34	15.8	34.00	-	-	-	0.3	0.7	0.1													
-	-	B	P	34	15.8	34.14	-	-	-	0.5	0.6	0.1													
4/19	0928	S	P	10.6	22.4	33.19	9.70	2.37	0.8	-	2.6	0.2	20.6	-	-	-	26	G.	5	1	8	3	NE	2	NE
-	-	M	P	0.0	20.9	34.43	10.25	2.40	1.5	-	1.2	0.1													
-	-	B	P	0.0	20.7	34.47	10.14	2.40	1.5	-	1.1	0.2													
5/17	0759	S	0	-	24.1	33.66	10.14	2.37	2.0	-	2.9	0.5	15.3	-	-	-	13	G.	0	-	4	0	-	0	
-	-	M	0	-	23.9	33.96	10.25	2.39	0.9	-	2.1	0.2													
-	-	B	P	0.1	22.7	35.01	10.54	2.41	2.8	-	1.1	0.2													
6/15	0945	S	0	-	27.3	34.23	9.99	2.34	4.5	-	3.0	0.7	-	-	-	-	16	L.G.	2	8	8	1	W	1	NW
-	-	M	0	-	26.9	34.63	10.30	2.35	3.9	-	2.1	0.5													
-	-	B	0	-	26.8	34.99	10.48	2.40	4.3	-	1.6	0.1													
7/7	0815	S	0	-	30.8	34.54	10.22	2.37	3.9	-	3.1	0.0	2.9	-	-	-	12	G.	6	8	8	0	- -	0	
-	-	M	0	-	30.0	34.99	10.50	2.40	3.1	-	1.5	0.2													
-	-	B	0	-	29.8	35.16	10.80	2.42	4.4	-	1.1	0.2													
8/4	0932	S	P	1	29.0	32.88	10.00	2.32	0.5	-	1.9	0.1	6.5	-	-	-	9½	D.G.	7	2,3,4,8	7	2	S	2	S
-	-	M	P	2.6	28.7	33.44	10.12	2.31	0.8	-	2.0	0.1													
-	-	B	P	1.1	28.8	35.08	10.60	2.38	1.7	-	1.0	0.1													
9/27	0855	S	P	0.0	27.9	31.42	9.50	2.25	0.6	-	4.5	0.0	1.8	-	-	-	12½	L.G.	2	1,8	7	3	SE	2	SW
-	-	M	0	-	28.2	33.19	10.08	2.33	2.1	-	1.4	0.1													
-	-	B	0	-	28.0	33.26	10.10	2.38	6.9	-	1.7	0.3													
10/11	0850	S	P	2	28.1	32.47	9.76	2.29	1.9	-	3.0	0.1	4.7	-	-	-	20	L.G.	2	1,3,8	7	3	E	1	NE
-	-	M	P	2.4	28.3	33.04	9.90	2.33	4.2	-	1.7	0.2													
-	-	B	P	0.6	28.4	33.22	10.14	2.37	4.4	-	0.9	0.3													
11/14	0906	S	P	0.0	22.4	32.86	9.90	2.38	0.8	-	1.2	0.2	3.5	-	-	48.0	28	L.G.	1	8	6	5	NE	2	NE
-	-	M	P	0.0	22.3	33.04	9.90	2.38	0.9	-	1.1	0.1	-	-	-	13.0									
-	-	B	0	-	24.0	34.72	10.44	2.44	3.0	-	0.8	0.3	-	-	-	5.8									
12/8	0901	S	0	-	17.8	33.33	10.20	2.40	1.3	-	1.0	0.2	0.6	-	-	33.1	18	G.	7	6,8	5	2	NE	1	NE
-	-	M	0	-	18.4	34.07	10.16	2.38	1.5	-	0.6	-	-	-	-	17.6									
-	-	B	P	0.0	18.7	34.04	10.30	2.40	0.9	-	0.9	0.2	-	-	-	4.9									
1961																									
1/12	0903	S	0	-	14.6	34.25	10.16	2.33	1.0	-	1.8	0.1	2.4	10.9	2.3	56.2	-	G.	7	2,6	6	4	NE	1	NE
-	-	M	0	-	14.7	34.60	10.10	2.38	1.8	-	1.6	0.1	-	-	-	22.7									
-	-	B	0	-	14.7	34.88	10.30	2.38	1.1	-	0.6	0.4	-	-	-	9.4									
2/28	0916	S	P	0.1	19.2	34.25	10.53	2.43	1.8	-	1.8	0.1	-	14.4	0.4	56.0	4	M.G.	1	0,1,2	7	2	SE	2	SE
-	-	M	P	0.0	19.2	34.25	10.53	2.44	2.9	-	-	-	-	-	-	6.5									
-	-	B	0	-	18.4	34.72	10.49	2.46	1.9	-	0.9	0.4	-	-	-	2.6									
3/2	0906	S	0	-	20.4	33.95	10.30	2.42	3.1	-	2.7	0.2	-	13.0	0.3	-	7	M.G.	7	8	6	2	NE	1	NE
-	-	M	P	0.1	20.1	34.20	10.36	2.44	2.2	-	1.8	0.2													
-	-	B	P	0.0	19.9	34.51	10.45	2.42	2.7	-	1.4	0.2													
5/15	0859	S	0	-	25.5	34.88	10.61	2.28	3.2	-	3.1	0.2	2.4	17.9	5.9	64.7	15	G.	0	-	7	1	SE	1	S
-	-	M	0	-	25.4	34.99	10.70	2.39	2.7	-	2.6	0.0	-	-	-	14.7									
-	-	B	0	-	25.2	35.50	10.90	2.44	2.3	-	0.9	0.0	-	-	-	7.4									
6/5	0845	S	0	-	26.9	35.03	10.48	2.41	3.8	-	0.9	0.5	-	27.1	3.1	61.7	24	D.G.	6	4,8	7	2	SE	1	SE
-	-	M	0	-	26.9	35.03	10.60	2.44	3.3	-	0.8	0.2	-	-	-	30.0									
-	-	B	0	-	26.6	35.50	10.80	2.46	3.3	-	1.1	0.5	-	-	-	15.0									
7/10	0853	S	0	-	30.2	35.79	11.16	2.43	0.3	-	1.7	0.2	1.2	8.6	8.7	38.2	15	G.	5	1,8	7	1	SE	0	
-	-	M	0	-	30.2	35.79	10.88	2.45	0.4	-	1.1	1.8	-	-	-	10.5									
-	-	B	0	-	30.2	35.84	10.90	2.46	2.0	-	1.0	0.5	-	-	-	3.6									

STATION 21B — Depth of 45 feet — Lat. 27°35.8' N. — Long. 82°54.4' W.

Date	Time	Depth	Gymnodinium breve C	Gymnodinium breve M	°C	Sal	Ca	Alk	Si	Phosphorus PO_4 In	Phosphorus PO_4 Tot	Nitrogen NO_3 NO_2-N	Nitrogen NH_3	Nitrogen Org	Nitrogen In	Light transm	Water Transp	Water Color	Sky CA	Sky CT	Sky Vi	Wind Amt	Wind Dir	Sea Amt	Sea Dir
1960																									
1/11	0950	S	P	0.0	19.6	33.10	-	-	-	1.8	2.0	0.2	-	-	-	-	20	D.G.	2	-	-	3	NE	2	NE
-	-	M	0	-	19.4	33.86	-	-	-	0.4	1.1	0.3													
-	-	B	0	-	19.6	34.29	-	-	-	0.4	0.9	0.2													
2/24	0946	S	P	170	15.1	33.57	-	-	-	0.4	0.9	0.4	-	-	-	-	9	M.G.	8	-	-	4	E	2	NW
-	-	M	P	70	15.1	33.62	-	-	-	0.5	0.9	0.2													
-	-	B	P	60	15.2	33.89	-	-	-	0.3	0.6	0.1													
3/23	0945	S	P	260	15.7	30.66	-	-	-	0.2	0.6	0.2	-	-	-	-	9	L.G.	0	-	-	2	SW	2	SW
-	-	M	P	50	15.7	34.33	-	-	-	0.3	0.5	0.2													
-	-	B	P	32	15.6	34.56	-	-	-	0.3	0.5	0.1													
4/19	0953	S	P	14.4	22.6	33.30	9.86	2.38	0.6	-	2.6	0.2	4.1	-	-	-	25	D.G.	5	1	7	3	NE	2	NE
-	-	M	P	0.0	21.0	34.47	10.28	2.41	0.9	-	0.9	0.3													
-	-	B	0	-	19.8	34.63	10.45	2.41	1.6	-	0.9	0.1													
5/17	0820	S	0	-	24.0	33.89	10.35	2.34	1.0	-	2.0	0.3	0.6	-	-	-	22	D.G.	0	-	4	1	NW	0	
-	-	M	0	-	23.9	34.14	10.33	2.37	0.5	-	1.8	0.1													
-	-	B	P	0.0	22.3	35.12	10.63	2.42	2.5	-	0.9	0.2													
6/15	1000	S	0	-	27.3	34.45	10.37	2.42	3.0	-	2.6	0.1	-	-	-	-	24	L.G.	2	8	8	1	W	1	NW
-	-	M	0	-	26.9	34.90	10.53	2.42	2.3	-	1.7	0.0													
-	-	B	0	-	26.6	35.16	10.60	2.42	4.0	-	1.6	0.2													
7/7	0829	S	0	-	30.6	34.76	10.48	2.42	0.9	-	2.3	0.1	2.9	-	-	-	15	G.	6	8	8	1	SW	0	
-	-	M	0	-	30.0	35.14	10.77	2.43	0.9	-	1.1	0.1													
-	-	B	0	-	29.5	35.30	10.64	2.43	4.4	-	1.1	0.1													
8/4	0957	S	P	32	29.1	33.37	10.11	2.32	1.0	-	2.1	0.1	1.8	-	-	-	10½	D.G.	7	2,3,4,8	7	2	S	2	S
-	-	M	P	8	29.0	34.99	10.70	2.38	1.7	-	0.7	0.1													
-	-	B	P	1.4	28.8	35.21	10.70	2.38	2.7	-	0.6	0.1													
9/27	0915	S	P	0.0	28.2	33.22	10.03	2.34	1.8	-	1.2	0.0	4.1	-	-	-	16	L.G.	2	1,8	7	2	SE	2	SW
-	-	M	0	-	28.2	33.40	10.10	2.32	2.3	-	1.1	0.1													
-	-	B	0	-	28.1	33.60	10.20	2.26	5.3	-	1.4	0.1													
10/11	0906	S	P	4	27.9	32.86	9.91	2.35	3.3	-	1.9	0.1	4.1	-	-	-	22	L.G.	2	1,3,8	7	3	E	1	NE
-	-	M	P	0.1	28.1	33.01	9.98	2.34	3.7	-	1.8	0.2													
-	-	B	P	0.0	28.2	33.42	10.05	2.34	4.6	-	1.2	0.3													
11/14	0929	S	P	0.0	22.2	32.63	9.77	2.41	0.8	-	1.4	0.8	1.8	-	-	52.5	30	L.G.	1	8	6	5	NE	2	NE
-	-	M	P	0.0	22.2	33.08	9.85	2.40	1.2	-	0.9	0.0	-	-	-	11.2									
-	-	B	0	-	23.8	34.87	10.48	2.40	2.3	-	1.0	0.2	-	-	-	4.5									
12/8	0925	S	0	-	17.2	32.72	10.01	2.43	1.2	-	0.8	0.3	0.6	-	-	47.2	18	G.	7	6,8	5	3	SE	1	NE
-	-	M	0	-	19.0	34.31	10.41	2.40	1.2	-	0.6	0.1	-	-	-	17.4									
-	-	B	0	-	19.1	34.31	10.34	2.40	1.7	-	0.6	0.5	-	-	-	4.0									
1961																									
1/12	0924	S	0	-	14.6	34.45	10.20	2.38	1.8	-	1.6	0.1	0.0	8.0	0.0	55.0	-	G.	7	2,6	6	4	NE	1	NE
-	-	M	0	-	14.7	34.34	10.20	2.38	1.1	-	1.7	0.1	-	-	-	13.8									
-	-	B	0	-	14.7	35.08	10.50	2.38	1.8	-	0.6	0.1	-	-	-	7.0									
2/28	0938	S	P	0.2	19.0	34.43	10.55	2.44	2.5	-	1.2	0.1	-	13.7	2.1	56.7	6½	M.G.	1	0,1,2	7	2	SE	2	SE
-	-	M	P	0.3	18.7	34.38	10.45	2.44	2.3	-	0.9	0.1	-	-	-	5.3									
-	-	B	P	0.0	18.2	34.92	10.69	2.45	2.4	-	0.6	0.3	-	-	-	2.5									
3/2	0918	S	0	-	19.8	34.43	10.45	2.43	3.6	-	1.3	-	-	12.7	0.3	-	9	G.	7	8	6	3	N	1	NW
-	-	M	0	-	19.8	34.42	10.38	2.42	2.0	-	1.4	0.0													
-	-	B	0	-	19.4	34.43	10.32	2.44	2.2	-	0.4	0.4													
5/15	0917	S	0	-	25.6	35.16	10.74	2.46	2.7	-	1.9	0.1	1.8	16.1	2.6	66.7	27	G.	0	-	7	1	SE	1	S
-	-	M	P	0.0	25.2	35.44	10.85	2.46	2.1	-	1.1	0.2	-	-	-	25.0									
-	-	B	0	-	25.1	35.53	10.94	2.48	2.2	-	0.7	0.0	-	-	-	11.8									
6/5	0908	S	P	0.0	26.8	35.17	10.63	2.47	2.5	-	1.0	0.4	-	32.6	2.9	70.0	27	D.G.	5	8,4	7	2	SE	1	SE
-	-	M	0	-	26.8	35.17	10.76	2.46	2.5	-	0.8	0.3	-	-	-	29.5									
-	-	B	0	-	26.5	35.57	10.75	2.46	3.2	-	0.8	2.0	-	-	-	18.3									
7/10	0916	S	0	-	30.3	35.88	10.90	2.46	0.3	-	0.8	1.7	1.2	20.4	2.9	33.3	25	G.	5	1,8	7	1	SE	0	
-	-	M	0	-	30.2	35.97	11.00	2.47	0.9	-	0.8	0.3	-	-	-	13.8									
-	-	B	0	-	29.9	35.99	11.00	2.46	2.8	-	0.8	1.6	-	-	-	5.5									

STATION 21 Depth of 48 feet Lat. 27°35.8' N. Long. 82°57.1' W.

Date	Time	Depth	Gymnodinium breve C	Gymnodinium breve M	°C	Sal	Ca	Alk	Si	Phosphorus PO_4 In	Phosphorus PO_4 Tot	Nitrogen NO_3-NO_2-N	Nitrogen NH_3	Nitrogen Org	Water Transp In	Water Transp Light transm	Color	Sky CA	Sky CT	Wind Vi	Wind Amt	Wind Dir	Sea Amt	Sea Dir
1960																								
1/11	1007	1	P	0.0	19.3	33.33	-	-	-	1.1	1.5	0.2	-	-	-	-	32	D.G.	2	-	-	2	NE	2	NE
-	-	2	0	-	19.3	34.33	-	-	-	0.3	0.8	0.5												
-	-	3	P	0.0	19.4	34.56	-	-	-	0.3	0.6	0.3												
-	-	4	P	0.0	19.6	34.58	-	-	-	0.5	0.7	0.3												
2/24	1007	1	P	48	15.2	33.57	-	-	-	0.6	1.1	0.1	-	-	-	-	10	M.G.	8	-	-	4	E	2	NW
-	-	2	P	150	15.2	33.62	-	-	-	0.4	1.0	0.2												
-	-	3	P	20	15.5	33.86	-	-	-	0.4	0.6	0.1												
-	-	4	P	25	15.5	34.33	-	-	-	0.3	0.7	0.1												
3/23	1000	1	P	180	15.6	31.46	-	-	-	0.4	0.6	0.3	-	-	-	-	11	L.G.	0	-	-	2	SW	2	SW
-	-	2	P	26	15.4	32.52	-	-	-	0.4	0.4	0.1												
-	-	3	P	22	15.4	34.74	-	-	-	0.5	0.5	0.2												
-	-	4	P	16	15.4	34.49	-	-	-	0.4	0.6	0.3												
4/19	1010	1	P	21	22.0	33.93	10.24	2.34	0.8	-	1.6	0.2	10.6	-	-	-	36	D.G.	5	1,8	8	3	NE	2	NE
-	-	2	P	0.4	20.5	34.36	10.35	2.40	0.4	-	0.8	0.2												
-	-	3	0	-	19.5	34.61	10.33	2.40	0.5	-	0.7	0.2												
-	-	4	0	-	18.8	34.79	10.33	2.40	0.8	-	0.7	0.5												
5/17	0841	1	P	0.0	24.0	34.42	10.30	2.34	0.6	-	1.6	0.2	0.6	-	-	-	30	D.G.	0	-	7	1	NW	0	
-	-	2	0	-	23.7	34.29	10.44	2.37	0.5	-	1.7	0.2												
-	-	3	0	-	22.1	34.34	10.60	2.39	0.5	-	1.0	-												
-	-	4	0	-	22.1	35.34	10.73	2.41	0.8	-	0.7	0.2												
6/15	1025	1	0	-	26.8	35.07	10.58	2.42	2.0	-	1.4	0.1	-	-	-	-	38	B.G.	2	8	8	1	WNW	1	NW
-	-	2	0	-	26.6	35.07	10.60	2.41	2.0	-	1.5	0.1												
-	-	3	0	-	26.4	35.16	10.60	2.42	2.0	-	1.5	0.2												
-	-	4	0	-	26.4	35.26	10.65	2.42	2.1	-	1.2	0.2												
7/7	0842	1	0	-	30.5	34.74	10.52	2.42	0.7	-	2.3	0.1	2.4	-	-	-	16	G.	6	8	8	0		0	
-	-	2	0	-	30.4	34.81	10.58	2.44	0.5	-	0.8	0.4												
-	-	3	0	-	29.2	35.25	10.55	2.42	1.7	-	2.2	0.1												
-	-	4	0	-	29.2	35.34	10.65	2.42	2.5	-	1.1	0.2												
8/4	1020	1	P	90	29.3	33.95	10.47	2.33	1.2	-	1.3	0.1	0.0	-	-	-	11½	D.G.	7	2,3,4,8	7	3	S	2	S
-	-	2	P	10	29.0	33.95	10.38	2.32	1.2	-	1.1	0.1												
-	-	3	P	8	28.9	34.58	10.55	2.36	1.5	-	1.0	0.1												
-	-	4	P	3.4	28.9	35.32	10.74	2.38	2.1	-	0.5	0.1												
9/27	0933	1	P	0.0	28.2	33.68	10.25	2.27	3.2	-	0.9	0.1	2.9		-	-	28	G.	3	8	7	2	SE	2	SW
-	-	2	P	0.0	28.2	33.69	10.22	2.30	3.4	-	1.0	0.0												
-	-	3	0	-	28.2	33.93	10.26	2.29	3.9	-	1.0	0.0												
-	-	4	0	-	28.2	34.29	10.37	2.30	3.9	-	0.8	0.1												
10/11	0927	1	P	0.1	27.9	33.01	9.90	2.36	3.1	-	1.8	0.6	2.4	-	-	-	23	G.	2	3,8	7	3	E	1	NE
-	-	2	P	0.1	28.0	32.94	9.90	2.35	3.0	-	1.8	0.1												
-	-	3	0	-	28.2	33.39	9.93	2.34	3.7	-	1.0	0.9												
-	-	4	0	-	28.2	34.69	10.50	2.42	3.6	-	0.8	0.4												
11/14	0952	1	P	0.0	22.0	33.31	9.96	2.40	1.6	-	0.7	0.0	1.8	-	-	45.4	36	D.G.	1	8	6	5	NE	2	NE
-	-	2	0	-	22.5	33.31	10.10	2.39	1.3	-	0.8	0.0	-	-	-	19.3									
-	-	3	0	-	23.3	34.33	10.32	2.41	1.7	-	0.8	1.0	-	-	-	11.0									
-	-	4	0	-	23.8	35.05	10.52	2.42	2.0	-	0.8	0.1	-	-	-	5.8									
12/8	1004	1	0	-	17.3	32.68	10.01	2.41	1.9	-	0.7	0.2	0.6	-	-	49.2	21	L.G.	6	6,8	4	1	N	1	SE
-	-	2	0	-	17.3	33.80	10.21	2.41	1.7	-	0.7	0.2	-	-	-	16.9									
-	-	3	0	-	19.2	32.75	9.95	2.42	2.1	-	0.5	0.1	-	-	-	9.0									
-	-	4	0	-	19.3	34.38	10.35	2.40	3.1	-	0.8	0.1	-	-	-	5.6									

STATION 21 (Continued) Depth of 48 feet Lat. 27°35.8' N. Long. 82°57.1' W.

Date	Time	Depth	Gymnodinium breve C	Gymnodinium breve M	°C	Sal	CA	Alk	Si	Phosphorus PO_4 In	Phosphorus PO_4 Tot	Nitrogen NO_3 NO_2-N	Nitrogen NH_3	Nitrogen Org	Nitrogen In	Light transm	Water Transp	Water Color	Sky CA	Sky CT	Wind Vi	Wind Amt	Wind Dir	Sea Amt	Sea Dir
1961																									
1/12	0945	1	0	-	14.8	34.34	10.40	2.38	1.0	-	2.0	0.2	1.8	8.3	2.3	53.8	-	G.	7	6	6	4	ENE	2	ENE
-	-	2	0	-	14.8	34.70	10.40	2.38	1.0	-	1.5	0.2	-	-	-	22.2									
-	-	3	0	-	14.8	35.10	10.50	2.38	1.2	-	0.6	0.2	-	-	-	11.5									
-	-	4	P	0.0	14.7	35.23	10.57	2.38	0.9	-	0.8	0.2	-	-	-	7.7									
2/28	1003	1	P	0.2	18.9	34.60	10.50	2.43	1.9	-	1.0	0.1	-	13.7	1.3	56.7	6	M.G.	1	0,1,2	7	3	SE	2	SE
-	-	2	P	0.0	18.2	34.61	10.48	2.42	1.7	-	1.0	0.2	-	-	-	21.1									
-	-	3	P	0.0	18.2	35.07	10.69	2.44	1.7	-	0.4	0.1	-	-	-	6.8									
-	-	4	P	0.0	18.2	34.60	10.60	2.43	2.7	-	1.0	0.2	-	-	-	2.0									
3/2	0938	1	P	0.0	19.4	34.88	10.50	2.43	2.4	-	0.9	-	-	12.4	0.1	-	10	G.	7	8	6	4	N	1	NW
-	-	2	P	0.0	19.3	34.88	10.57	2.42	2.8	-	0.8	1.0													
-	-	3	P	0.0	19.0	34.99	10.44	2.43	2.3	-	0.7	0.3													
-	-	4	P	0.0	19.0	34.99	10.50	2.42	2.4	-	0.8	0.1													
5/15	0938	1	0	-	25.2	35.59	10.68	2.45	1.7	-	0.7	0.1	2.9	12.6	3.9	65.0	30	G.	0	-	8	1	SE	1	S
-	-	2	P	0.1	25.0	35.77	10.97	2.45	1.4	-	0.7	0.2	-	-	-	33.0									
-	-	3	0	-	24.8	35.62	10.90	2.45	1.8	-	0.6	0.2	-	-	-	24.0									
-	-	4	P	0.0	24.6	35.62	10.80	2.45	1.6	-	0.6	1.0	-	-	-	15.0									
6/5	0931	1	0	-	26.6	35.35	10.78	2.42	2.0	-	1.1	0.3	-	32.3	4.4	68.4	30	D.G.	4	4,8	7	2	SE	1	SE
-	-	2	0	-	26.6	35.35	10.78	2.44	2.4	-	0.7	-	-	-	-	37.5									
-	-	3	0	-	26.6	35.35	10.70	2.44	2.0	-	0.8	0.8	-	-	-	26.3									
-	-	4	P	0.0	26.4	35.48	10.80	2.44	1.7	-	0.7	0.5	-	-	-	13.8									
7/10	0936	1	0	-	30.3	36.06	11.00	2.47	0.8	-	1.2	0.1	-	32.0	2.4	28.3	25	G.	6	1,8	7	0	-	0	
-	-	2	0	-	30.2	36.02	10.93	2.47	0.8	-	1.0	0.2	-	-	-	18.6									
-	-	3	0	-	29.8	36.06	10.90	2.46	0.6	-	0.6	1.4	-	-	-	5.3									
-	-	4	0	-	29.7	36.06	11.00	2.46	0.6	-	0.5	0.8	-	-	-	3.7									

STATION 23 Depth of 78 feet Lat. 27°35.8' N. Long. 83°08.2' W.

Date	Time	Depth	Gymnodinium breve C	Gymnodinium breve M	°C	Sal	Ca	Alk	Si	Phosphorus PO_4 In	Phosphorus PO_4 Tot	Nitrogen NO_3 NO_2-N	Nitrogen NH_3	Nitrogen Org	Nitrogen In	Light transm	Water Transp	Water Color	Sky CA	Sky CT	Sky Vi	Wind Amt	Wind Dir	Sea Amt	Sea Dir
1960																									
1/11	1156	1	0	-	19.6	34.87	-	-	-	0.1	0.5	0.6	-	-	-	-	36	D.G.	6	-	-	3	NE	2	NE
-	-	2	P	0.0	19.6	35.08	-	-	-	0.3	0.6	0.3													
-	-	3	P	0.0	19.7	35.25	-	-	-	0.4	0.5	0.2													
-	-	4	P	0.0	20.2	35.62	-	-	-	0.1	0.5	0.5													
2/24	1053	1	P	175	15.7	34.76	-	-	-	0.3	0.7	0.3	-	-	-	-	14	G.	8	-	-	4	ESE	2	NW
-	-	2	P	68	15.7	34.76	-	-	-	0.2	0.6	0.2													
-	-	3	P	10	15.6	34.76	-	-	-	0.1	0.5	0.2													
-	-	4	P	0.8	15.7	35.26	-	-	-	0.4	0.6	0.1													
3/23	1045	1	P	220	15.7	32.30	-	-	-	0.4	0.4	0.1	-	-	-	-	12	L.G.	0	-	-	2	SW	2	SW
-	-	2	P	5	15.4	34.13	-	-	-	0.3	0.4	0.3													
-	-	3	P	4	15.4	34.90	-	-	-	0.3	0.5	0.2													
-	-	4	P	8	15.1	35.57	-	-	-	0.3	0.5	0.1													
4/19	1057	1	P	3.2	21.2	34.52	10.25	2.39	0.4	-	0.4	0.2	2.4	-	-	-	36	B.G.	4	1,8	8	3	NE	2	NE
-	-	2	P	0.0	20.8	34.65	10.50	2.40	0.3	-	0.8	0.1													
-	-	3	0	-	19.1	34.45	10.22	2.40	0.2	-	0.5	0.1													
-	-	4	P	0.0	16.2	35.37	10.66	2.42	0.8	-	0.6	0.2													
5/17	0931	1	P	0.0	23.2	35.44	10.76	2.41	0.5	-	0.3	0.2	0.0	-	-	-	35	B.	1	6	8	1	N	0	-
-	-	2	P	0.0	22.9	35.52	10.73	2.41	0.1	-	0.4	0.3													
-	-	3	0	-	22.6	35.59	10.73	2.41	0.1	-	0.4	0.2													
-	-	4	0	-	20.8	35.71	10.80	2.40	0.7	-	0.7	0.2													
6/15	1115	1	0	-	26.8	35.53	10.75	2.42	1.8	-	0.8	0.1	-	-	-	-	44	B.	2	8	8	1	WNW	1	NW
-	-	2	0	-	26.4	35.53	10.65	2.42	1.0	-	0.6	0.2													
-	-	3	0	-	26.3	35.53	10.60	2.41	1.1	-	0.8	0.1													
-	-	4	0	-	24.6	35.71	10.83	2.42	2.5	-	0.6	0.4													
7/7	0926	1	0	-	30.4	35.71	10.65	2.43	0.5	-	0.4	0.1	0.6	-	-	-	18	G.	6	8	8	1	SW	0	-
-	-	2	0	-	28.4	35.95	10.78	2.42	0.0	-	0.6	0.2													
-	-	3	0	-	27.8	35.95	10.85	2.42	0.1	-	0.5	0.1													
-	-	4	0	-	27.0	36.08	11.05	2.44	3.3	-	0.6	0.6													
8/4	1110	1	P	150	29.2	35.52	10.84	2.38	3.0	-	0.5	0.1	4.1	-	-	-	24	B.G.	7	1,3,4,8	7	3	SE	2	SE
-	-	2	P	39	29.1	35.44	10.72	2.40	2.4	-	0.6	0.1													
-	-	3	P	38	29.1	35.46	10.75	2.40	2.3	-	0.7	0.4													
-	-	4	P	11.8	28.9	35.52	10.85	2.40	2.3	-	1.3	0.2													
9/27	1010	1	P	0.0	28.4	34.90	10.60	2.32	2.2	-	0.5	0.0	3.5	-	-	-	48	B.G.	3	8	7	3	SE	2	SW
-	-	2	0	-	28.2	35.19	10.70	2.32	2.4	-	0.5	0.1													
-	-	3	P	0.0	28.0	35.34	10.60	2.34	2.2	-	0.3	0.0													
-	-	4	0	-	27.2	35.25	10.74	2.27	2.2	-	0.5	0.1													
10/11	1013	1	P	0.2	28.3	33.57	10.16	2.37	2.4	-	0.8	0.1	2.9	-	-	-	29	D.G.	2	3,8	7	3	NE	1	NE
-	-	2	P	0.0	28.2	35.57	10.75	2.44	1.4	-	0.6	0.3													
-	-	3	0	-	28.2	35.61	10.81	2.42	1.3	-	0.6	0.5													
-	-	4	0	-	28.9	35.62	10.76	2.45	1.5	-	0.6	0.1													
11/14	1048	1	P	0.0	23.2	34.09	10.23	2.41	1.9	-	0.9	0.7	3.5	-	-	57.8	26	D.G.	1	4,8	7	5	NE	2	NE
-	-	2	0	-	23.0	34.09	10.25	2.42	2.3	-	0.8	0.2	-	-	-	14.6									
-	-	3	0	-	24.1	35.16	10.61	2.42	2.7	-	0.6	0.5	-	-	-	6.5									
-	-	4	0	-	24.3	35.34	10.51	2.40	2.6	-	0.5	0.5	-	-	-	2.4									
12/8	1037	1	0	-	20.0	34.97	10.56	2.42	2.1	-	0.8	0.1	1.2	-	-	27.3	35	B.G.	5	1,6,8	6	6	ENE	1	NE
-	-	2	P	0.0	20.0	34.94	10.56	2.42	1.0	-	0.6	0.3	-	-	-	20.4									
-	-	3	0	-	21.0	35.55	10.80	2.42	3.6	-	0.5	0.1	-	-	-	9.8									
-	-	4	0	-	21.0	35.84	10.85	2.45	3.2	-	0.4	0.2	-	-	-	5.3									

STATION 23 (Continued) Depth of 78 feet Lat. 27°35.8' N. Long. 83°08.2' W.

Date	Time	Depth	Gymnodinium breve C	Gymnodinium breve M	°C	Sal	Ca	Alk	Si	PO_4 In	PO_4 Tot	NO_3-NO_2-N	NH_3	Org N	In	Light transm	Water Transp	Water Color	Sky CA	Sky CT	Vi	Wind Amt	Wind Dir	Sea Amt	Sea Dir
1961																									
1/12	1039	1	P	0.0	15.2	35.66	10.70	2.41	0.8	-	0.7	0.1	-	3.7	1.3	50.0	7	B.G.	6	4,6,8	6	4	ENE	2	ENE
-	-	2	P	0.0	15.2	35.68	10.65	2.42	0.8	-	0.4	0.1	-	-	-	25.8									
-	-	3	0	-	15.2	35.66	10.83	2.41	1.2	-	0.5	0.3	-	-	-	11.9									
-	-	4	P	0.0	15.2	35.82	10.90	2.43	1.9	-	0.5	0.1	-	-	-	6.1									
2/28	1054	1	P	0.1	18.6	35.66	10.99	2.44	2.2	-	0.5	0.1	0.0	9.1	0.1	55.3	7	L.G.	1	0,1,2	7	2	SE	2	SSE
-	-	2	0	-	18.0	35.61	10.87	2.44	2.0	-	0.2	0.1	-	-	-	11.4									
-	-	3	0	-	17.2	35.52	10.80	2.43	2.4	-	0.1	0.1	-	-	-	3.3									
-	-	4	0	-	17.0	35.52	10.72	2.46	2.7	-	0.4	0.2	-	-	-	0.3									
3/2	1025	1	0	-	18.9	35.61	10.70	2.42	2.3	-	0.5	0.5	0.6	10.3	3.1	-	14	G.	3	1,6,8	6	4	N	2	NW
-	-	2	0	-	18.7	35.61	10.80	2.43	1.8	-	0.8	1.0													
-	-	3	0	-	17.6	35.61	10.80	2.48	2.3	-	0.4	0.5													
-	-	4	0	-	17.4	35.73	10.90	2.43	1.8	-	0.5	0.2													
5/15	1029	1	0	-	25.7	36.04	10.97	2.44	2.9	-	0.3	0.1	1.8	11.3	4.6	66.7	38	B.G.	1	6	8	0	-	1	S
-	-	2	0	-	24.5	36.04	11.05	2.44	1.1	-	0.3	0.5	-	-	-	31.2									
-	-	3	0	-	24.0	36.09	11.07	2.45	1.1	-	0.3	0.2	-	-	-	18.8									
-	-	4	0	-	24.0	36.11	10.92	2.44	0.8	-	0.3	0.2	-	-	-	9.6									
6/5	1024	1	0	-	26.6	35.66	10.85	2.44	2.4	-	1.2	1.2	-	33.7	1.3	68.2	35	B.G.	2	2,6	7	1	SE	1	SE
-	-	2	0	-	26.4	35.66	10.85	2.4	2.6	-	0.9	1.3	-	-	-	31.8									
-	-	3	0	-	26.0	35.43	10.90	2.44	1.5	-	0.5	0.4	-	-	-	20.4									
-	-	4	0	-	25.2	36.02	10.81	2.44	2.6	-	0.8	0.3	-	-	-	8.7									
7/10	1026	1	0	-	29.6	36.31	10.97	2.46	2.7	-	0.4	1.0	2.4	18.1	12.0	43.9	35	B.	5	1,8	7	2	SSE	0	
-	-	2	0	-	29.2	36.31	11.00	2.45	1.5	-	0.4	1.0	-	-	-	19.5									
-	-	3	0	-	29.2	36.27	11.08	2.46	2.0	-	0.7	1.4	-	-	-	12.5									
-	-	4	0	-	28.6	36.27	11.10	2.45	2.2	-	0.4	0.3	-	-	-	7.1									

STATION 25 | Depth of 101 feet | Lat. 27°35.8' N. | Long. 83°19.5' W.

Date	Time	Depth	Gymnodinium breve C	Gymnodinium breve M	°C	Sal	Ca	Alk	Si	Phosphorus PO_4 In	Phosphorus PO_4 Tot	Nitrogen NO_3 NO_2-N	Nitrogen NH_3	Nitrogen Org	Nitrogen In	Water Light transm	Water Transp	Water Color	Sky CA	Sky CT	Sky Vi	Wind Amt	Wind Dir	Sea Amt	Sea Dir
1960																									
1/11	1147	1	P	0.1	19.9	35.84	-	-	-	0.1	0.5	0.3	-	-	-	-	38	B.	6	-	-	3	NE	2	NE
-	-	2	P	0.0	19.8	35.84	-	-	-	0.0	0.3	0.2													
-	-	3	P	0.0	19.8	35.81	-	-	-	0.3	0.5	0.3													
-	-	4	0	-	19.8	35.75	-	-	-	0.1	0.2	0.5													
2/24	1139	1	P	114	15.6	35.08	-	-	-	0.3	0.5	0.2	-	-	-	-	13	G.	8	-	-	4	SE	2	NW
-	-	2	P	0.0	15.6	35.26	-	-	-	0.2	0.5	0.4													
-	-	3	P	1.2	16.2	35.82	-	-	-	0.2	0.4	0.3													
-	-	4	P	2.6	16.2	35.95	-	-	-	0.4	0.4	0.1													
3/23	1130	1	P	800	16.6	34.61	-	-	-	0.4	0.6	0.1	-	-	-	-	25	B.G.	0	-	-	2	SW	2	SW
-	-	2	P	8	15.6	34.63	-	-	-	0.4	0.4	0.1													
-	-	3	P	0.8	15.1	35.34	-	-	-	0.1	0.5	0.2													
-	-	4	P	20	15.1	35.70	-	-	-	0.4	0.4	0.1													
4/19	1141	1	P	0.6	22.0	35.14	10.60	2.41	0.6	-	0.7	0.2	0.0	-	-	-	48	B.	4	1	8	3	NE	2	NNW
-	-	2	0	-	19.6	35.14	10.44	2.42	1.0	-	0.4	0.2													
-	-	3	0	-	16.4	35.62	10.58	2.42	0.7	-	0.5	0.2													
-	-	4	0	-	15.8	35.17	10.41	2.42	0.6	-	0.5	0.2													
5/17	1021	1	P	0.0	23.4	35.43	10.70	2.43	0.2	-	0.6	0.3	-	-	-	-	36	B.	1	6	8	1	N	0	-
-	-	2	0	-	22.3	35.52	10.65	2.41	0.8	-	0.4	0.2													
-	-	3	0	-	20.4	35.93	10.92	2.41	0.4	-	0.4	0.1													
-	-	4	0	-	20.4	35.91	10.92	2.43	0.6	-	0.7	0.3													
6/15	1200	1	0	-	27.2	35.82	10.84	2.42	1.5	-	0.8	0.9	-	-	-	-	46	B.	1	8	7	1	WNW	1	NW
-	-	2	0	-	26.0	36.04	10.90	2.43	1.7	-	0.6	0.1													
-	-	3	0	-	25.6	36.18	10.90	2.43	0.9	-	0.5	0.2													
-	-	4	0	-	23.4	35.95	10.74	2.43	2.5	-	0.8	0.2													
7/7	1009	1	0	-	29.6	36.22	10.99	2.44	0.5	-	0.8	0.1	2.9	-	-	-	50	B.	6	8	8	2	SW	2	W
-	-	2	0	-	28.1	36.22	11.04	2.43	1.3	-	0.5	0.2													
-	-	3	0	-	26.5	36.17	11.06	2.43	0.9	-	0.6	0.1													
-	-	4	0	-	26.5	36.29	11.02	2.44	2.7	-	0.5	0.2													
8/4	1205	1	P	6	29.2	35.66	10.79	2.40	2.2	-	0.7	0.1	0.0	-	-	-	32	B.G.	6	1,2,4,8	7	3	SE	2	SE
-	-	2	P	1.3	28.8	35.70	10.85	2.38	1.8	-	0.4	0.3													
-	-	3	0	-	28.5	35.79	10.84	2.40	2.0	-	0.1	0.4													
-	-	4	P	0.0	27.6	35.79	10.90	2.41	1.3	-	0.5	0.1													
9/27	1052	1	P	0.0	28.1	35.73	10.92	2.38	1.8	-	0.5	0.2	2.4	-	-	-	62	B.G.	4	8	8	3	E	2	SW
-	-	2	P	0.0	27.6	35.73	10.76	2.32	1.7	-	0.4	0.3													
-	-	3	P	0.0	27.5	35.77	10.76	2.34	2.2	-	0.3	0.0													
-	-	4	0	-	25.0	36.04	10.90	2.38	4.1	-	0.6	0.1													
10/11	1059	1	P	0.0	27.8	35.75	10.70	2.43	1.4	-	0.7	0.1	4.1	-	-	-	49	B.	2	8	7	3	NE	1	NE
-	-	2	0	-	27.6	35.71	10.84	2.45	1.3	-	0.6	-													
-	-	3	0	-	27.6	35.86	10.72	2.46	1.0	-	0.6	0.1													
-	-	4	0	-	26.3	35.90	10.75	2.46	1.6	-	0.6	0.3													
11/14	1136	1	0	-	24.8	35.50	10.64	2.40	2.7	-	0.5	0.4	5.9	-	-	42.6	54	B.G.	2	4,8	7	5	NE	2	NE
-	-	2	0	-	24.4	35.50	10.60	2.42	2.7	-	0.5	0.4	-	-	-	16.7									
-	-	3	0	-	24.8	35.64	10.58	2.42	2.6	-	0.6	0.6	-	-	-	8.2									
-	-	4	0	-	24.8	35.82	10.70	2.44	2.7	-	0.5	0.2	-	-	-	2.7									
12/8	1131	1	0	-	21.1	35.88	10.90	2.44	2.0	-	0.5	0.9	0.0	-	-	50.0	30	B.G.	4	1,2,3,8	7	2	ENE	1	NE
-	-	2	0	-	21.1	36.02	10.84	2.42	2.1	-	0.6	0.3	-	-	-	15.4									
-	-	3	0	-	21.0	35.81	10.85	2.43	2.9	-	0.5	0.2	-	-	-	6.8									
-	-	4	0	-	21.0	35.97	10.84	2.43	3.7	-	0.4	0.3	-	-	-	2.1									

STATION 25 (Continued) Depth of 101 feet Lat. 27°35.8' N. Long. 83°19.5' W.

Date	Time	Depth	Gymnodinium breve C	Gymnodinium breve M	°C	Sal	Ca	Alk	Si	Phosphorus PO_4 In	Phosphorus PO_4 Tot	Nitrogen NO_3 NO_2-N	Nitrogen NH_3	Nitrogen Org	Nitrogen In	Light transm	Water Transp	Water Color	Sky CA	Sky CT	Wind Vi	Wind Amt	Wind Dir	Sea Amt	Sea Dir
1961																									
1/12	1130	1	0	-	16.1	36.11	11.05	2.43	3.0	-	1.0	0.1	-	9.7	0.0	26.9	-	B.	7	6,4,8	6	4	ENE	2	NNW
-	-	2	0	-	16.1	36.26	10.81	2.42	1.8	-	0.6	0.0	-	-	-	17.3									
-	-	3	0	-	16.1	36.26	11.00	2.43	0.8	-	0.4	0.1	-	-	-	11.5									
-	-	4	0	-	16.0	36.09	10.87	2.43	1.4	-	0.8	0.2	-	-	-	3.7									
2/28	1157	1	P	0.1	17.8	35.88	10.93	2.44	1.1	-	0.2	0.1	-	8.9	1.6	47.6	32	B.G.	1	0,1,2	7	3	SSE	2.	SE
-	-	2	0	-	17.2	35.91	11.03	2.44	2.3	-	0.3	0.2	-	-	-	19.6									
-	-	3	P	0.0	17.0	35.91	10.96	2.44	2.1	-	0.2	0.3	-	-	-	9.5									
-	-	4	0	-	15.4	35.91	11.08	2.44	2.8	-	0.6	0.2	-	-	-	0.9									
3/2	1115	1	0	-	18.2	35.88	10.90	2.44	2.1	-	1.0	0.2	2.4	9.1	-	-	28	B.	9	6,8	6	4	WNW	2	NNW
-	-	2	0	-	17.9	35.88	10.90	2.44	1.4	-	0.8	0.3													
-	-	3	P	0.0	17.3	35.88	10.90	2.44	1.6	-	0.4	0.4													
-	-	4	0	-	15.9	35.88	10.85	2.44	3.9	-	0.4	0.3													
5/15	1121	1	0	-	25.7	36.29	11.11	2.44	1.8	-	0.3	1.2	0.0	10.4	1.1	69.2	46	B.	1	1,8	8	1	W	1	S
-	-	2	0	-	23.7	36.26	11.08	2.44	1.9	-	0.3	0.1	-	-	-	38.5									
-	-	3	0	-	23.5	36.29	11.00	2.45	1.8	-	0.4	0.3	-	-	-	19.4									
-	-	4	0	-	23.4	36.20	10.98	2.43	1.5	-	0.3	0.0	-	-	-	7.4									
6/5	1116	1	0	-	26.7	35.99	10.81	2.45	1.7	-	0.8	0.9	-	27.9	1.3	60.0	41	B.	2	2,8	7	2	E	1	E
-	-	2	0	-	26.2	35.91	10.88	2.44	3.1	-	0.6	0.9	-	-	-	28.0									
-	-	3	0	-	25.6	36.15	11.04	2.45	1.5	-	0.4	0.4	-	-	-	16.0									
-	-	4	0	-	24.6	36.18	11.00	2.45	2.5	-	0.6	0.5	-	-	-	6.5									
7/10	1115	1	0	-	30.7	36.38	11.10	2.46	2.1	-	0.3	0.2	0.6	16.1	4.4	53.1	44	B.	5	1,8	7	3	NW	0	
-	-	2	0	-	28.9	36.31	11.10	2.46	2.7	-	0.5	2.8	-	-	-	16.4									
-	-	3	0	-	28.3	36.31	11.10	2.46	2.3	-	0.3	1.3	-	-	-	7.8									
-	-	4	0	-	26.2	36.34	11.10	2.45	3.3	-	0.3	4.0	-	-	-	4.8									

STATION 27 Depth of 122 feet Lat. 27°35.8' N, Long. 83°30.5' W,

Date	Time	Depth	Gymnodinium breve C	Gymnodinium breve M	°C	Sal	Ca	Alk	Si	Phosphorus PO_4 In	Phosphorus PO_4 Tot	Nitrogen NO_3 NO_2-N	Nitrogen NH_3	Nitrogen Org	Water In	Water Light transm	Water Transp	Water Color	Sky CA	Sky CT	Sky Vi	Wind Amt	Wind Dir	Sea Amt	Sea Dir
1960																									
1/11	1234	1	P	0.0	20.7	36.08	-	-	-	0.1	0.2	0.3	-	-	-	-	40	B.	6	-	-	2	NE	0	
-	-	2	0	-	20.2	35.97	-	-	-	0.3	0.3	0.5													
-	-	3	0	-	19.8	35.84	-	-	-	0.3	0.5	0.5													
-	-	4	P	0.0	19.8	35.86	-	-	-	0.2	0.5	0.4													
2/24	1229	1	P	0.0	16.4	35.79	-	-	-	0.2	0.5	0.2	-	-	-	-	15	B.G.	8	-	-	4	SE	2	NW
-	-	2	0	-	16.4	36.08	-	-	-	0.3	0.6	0.3													
-	-	3	0	-	16.3	36.08	-	-	-	0.2	0.5	0.2													
-	-	4	0	-	16.3	36.02	-	-	-	0.1	0.5	0.2													
3/23	1217	1	P	300	16.6	34.56	-	-	-	0.3	0.6	0.1	-	-	-	-	33	B.G.	0	-	-	2	SW	2	SW
-	-	2	P	70	15.6	34.63	-	-	-	0.3	0.4	0.2													
-	-	3	P	20	15.5	35.55	-	-	-	0.1	0.3	0.2													
-	-	4	P	16.1	15.5	35.64	-	-	-	0.3	0.3	0.1													
4/19	1230	1	P	2.4	21.5	35.05	10.46	2.38	0.4	-	0.4	0.2	34.7	-	-	-	45	B.	4	1	8	3	NE	2	NNW
-	-	2	P	0.0	19.8	35.14	10.43	2.42	0.4	-	0.3	0.2													
-	-	3	0	-	16.3	35.91	10.64	2.40	1.8	-	0.6	0.2													
-	-	4	0	-	16.3	35.71	10.64	2.44	1.4	-	0.5	0.1													
5/17	1112	1	P	0.0	24.1	35.46	10.77	2.29	0.2	-	0.4	0.4	5.9	-	-	-	41	B.	1	6	7	0	-	0	
-	-	2	0	-	22.5	35.55	10.73	2.31	0.5	-	0.6	0.2													
-	-	3	0	-	18.6	35.93	10.81	2.37	0.7	-	0.3	0.2													
-	-	4	0	-	18.5	35.90	10.90	2.42	2.4	-	0.4	0.2													
6/15	1250	1	0	-	27.3	36.26	10.90	2.44	0.9	-	1.4	0.2	-	-	-	-	49	B.	1	8	8	1	W	1	NW
-	-	2	0	-	25.7	36.08	10.80	2.43	0.7	-	0.5	0.1													
-	-	3	0	-	25.0	36.22	10.94	2.46	1.2	-	0.5	0.2													
-	-	4	0	-	22.0	36.04	10.77	2.45	2.6	-	0.8	0.9													
7/7	1055	1	0	-	29.2	36.29	10.94	2.44	0.7	-	1.0	0.1	0.0	-	-	-	70	B.	5	8	8	1	WSW	2	W
-	-	2	0	-	27.8	36.22	11.10	2.43	0.8	-	0.4	0.1													
-	-	3	0	-	26.7	36.22	11.20	2.41	1.1	-	0.5	0.2													
-	-	4	0	-	24.6	36.13	10.95	2.44	2.8	-	0.6	0.6													
8/4	1255	1	0	-	29.0	35.79	10.85	2.40	1.1	-	0.5	0.2	2.9	-	-	-	41	B.G.	6	1,2,4,8	7	2	SE	2	SE
-	-	2	0	-	28.5	35.75	10.78	2.41	1.2	-	0.4	0.1													
-	-	3	0	-	28.5	35.75	10.88	2.40	1.0	-	0.4	0.1													
-	-	4	0	-	24.3	36.04	10.97	2.40	3.6	-	0.5	0.2													
9/27	1158	1	0	-	28.4	35.73	10.90	2.36	1.8	-	0.3	0.1	2.4	-	-	-	70	B.	4	1,8	7	0	-	1	W
-	-	2	P	0.0	27.7	35.68	10.85	2.34	1.6	-	0.4	0.5													
-	-	3	0	-	25.0	35.73	10.76	2.38	2.0	-	0.3	0.1													
-	-	4	0	-	22.9	36.13	10.94	2.42	3.5	-	0.5	0.1													
10/11	1146	1	P	0.0	28.0	35.75	10.84	2.46	1.0	-	0.6	0.1	5.3	-	-	-	51	B.	2	8	7	3	NE	1	NE
-	-	2	0	-	27.8	35.81	10.80	2.43	1.0	-	0.6	0.1													
-	-	3	0	-	27.7	35.81	10.80	2.46	1.0	-	0.6	0.1													
-	-	4	0	-	22.8	36.09	10.88	2.47	3.7	-	0.8	0.4													
11/14	1227	1	0	-	24.9	35.99	10.70	2.44	2.0	-	0.4	0.1	4.7	-	-	49.7	45	B.	2	1,4,6,8	7	5	NE	2	NE
-	-	2	0	-	24.8	35.99	10.74	2.44	2.0	-	0.5	0.1	-	-	-	23.2									
-	-	3	0	-	24.8	36.06	10.80	2.45	1.5	-	0.4	0.1	-	-	-	8.4									
-	-	4	0	-	24.7	36.06	10.77	2.45	1.3	-	0.5	0.4	-	-	-	4.1									
12/8	1224	1	0	-	21.9	36.55	11.04	2.45	3.3	-	0.5	0.1	0.0	-	-	53.8	34	B.	5	1,4	7	2	ENE	1	NE
-	-	2	0	-	21.8	36.09	11.04	2.46	2.8	-	0.6	1.0	-	-	-	24.5									
-	-	3	0	-	21.8	36.27	11.05	2.46	2.7	-	0.6	0.1	-	-	-	7.1									
-	-	4	0	-	21.8	36.17	11.05	2.46	2.3	-	0.5	0.1	-	-	-	1.9									

STATION 27 (Continued Depth of 122 feet Lat. 27°35.8' N. Long. 83°30.5' W.

Date	Time	Depth	Gymnodinium breve C	Gymnodinium breve M	°C	Sal	Ca	Alk	Si	Phosphorus PO_4 In	Phosphorus PO_4 Tot	Nitrogen NO_3 NO_2-N	Nitrogen NH_3	Nitrogen Org	Nitrogen In	Light transm	Water Transp	Water Color	CA	CT	Vi	Wind Amt	Wind Dir	Sea Amt	Sea Dir
1961																									
1/12	1226	1	0	-	17.9	36.42	11.05	2.45	2.4	-	0.4	0.1	-	10.0	0.3	39.6	-	B.	7	6,4,0	4	4	NE	2	NNE
-	-	2	0	-	17.9	36.18	10.90	2.44	2.1	-	0.5	0.1	-	-	-	10.7									
-	-	3	0	-	17.8	36.45	11.10	2.44	0.5	-	0.5	0.1	-	-	-	7.5									
-	-	4	0	-	17.0	36.17	10.84	2.44	2.5	-	0.8	0.1	-	-	-	2.9									
2/28	1235	1	P	0.0	17.5	35.84	10.96	2.42	2.6	-	0.1	0.1	-	8.7	1.0	35.7	47	B.	1	0,1,2	7	2	SSE	2	SW
-	-	2	0	-	16.2	35.88	11.04	2.44	1.3	-	0.4	0.1	-	-	-	22.3									
-	-	3	0	-	16.2	35.88	10.90	2.42	2.4	-	0.3	0.2	-	-	-	4.5									
-	-	4	0	-	15.2	35.88	11.00	2.46	1.7	-	0.4	0.2	-	-	-	0.4									
3/2	1206	1	P	0.0	17.5	35.91	10.90	2.44	1.8	-	0.4	0.0	1.2	13.7	1.1	-	37	B.	9	6,8	6	4	NNW	1	NNW
-	-	2	P	0.0	17.2	35.84	10.80	2.44	1.5	-	0.5	0.3													
-	-	3	P	0.0	16.5	35.84	10.80	2.44	1.5	-	0.3	0.1													
-	-	4	P	0.0	15.2	35.91	10.84	2.44	1.4	-	0.3	-													
5/15	1214	1	0	-	24.5	36.29	11.10	2.44	1.5	-	0.3	0.1	-	8.4	2.6	59.2	42	B.	1	1,8	8	1	W	1	SW
-	-	2	0	-	23.7	36.33	10.90	2.45	1.3	-	0.2	0.0	-	-	-	27.8									
-	-	3	0	-	22.3	36.29	10.91	2.45	3.2	-	0.3	0.2	-	-	-	16.2									
-	-	4	0	-	22.2	36.29	11.03	2.45	2.4	-	0.3	0.2	-	-	-	6.0									
6/5	1213	1	0	-	26.7	36.11	11.10	2.45	1.6	-	0.6	-	-	26.6	0.0	57.7	40	B.	1	2,8	7	2	E	1	E
-	-	2	0	-	26.1	36.00	10.85	2.44	1.6	-	0.4	0.7	-	-	-	25.0									
-	-	3	0	-	24.1	36.18	10.98	2.44	2.8	-	0.6	3.0	-	-	-	13.0									
-	-	4	0	-	23.9	36.27	10.95	2.49	3.7	-	0.7	0.3	-	-	-	4.3									
7/10	1207	1	0	-	28.4	35.79	11.00	2.44	1.3	-	0.6	-	0.6	13.7	1.3	41.7	56	B.	5	1,8	7	4	S	2	SSW
-	-	2	0	-	28.2	36.17	11.00	2.45	2.0	-	0.4	0.4	-	-	-	29.7									
-	-	3	0	-	24.4	36.31	11.02	2.44	2.6	-	0.4	0.4	-	-	-	5.0									
-	-	4	0	-	24.4	36.24	11.07	2.46	5.0	-	0.6	1.0	-	-	-	1.3									

STATION 27A Depth of 150 feet Lat. 27°35.8' N. Long. 83°40.5' W.

Date	Time	Depth	Gymnodinium breve C	Gymnodinium breve M	°C	Sal	Ca	Alk	Si	Phosphorus PO_4 In	Phosphorus PO_4 Tot	Nitrogen NO_3 NO_2-N	Nitrogen NH_3	Nitrogen Org	Water In	Water Light transm	Water Transp	Water Color	Sky CA	Sky CT	Wind Vi	Wind Amt	Wind Dir	Sea Amt	Sea Dir
1960																									
6/15	1340	1	0	-	27.0	36.29	11.03	2.44	0.7	-	0.5	0.1	-	-	-	-	67	B.	1	8	8	0	-	2	NW
-	-	2	P	0.0	25.7	36.26																			
-	-	3	0	-	23.7	36.29																			
-	-	4	P	0.0	21.4	36.00	10.84	2.42	1.9	-	0.8	0.1													
7/7	1143	1	0	-	29.4	36.04	11.01	2.44	0.0	-	0.5	0.1	0.6	-	-	-	28	D.G.	6	8	8	1	SW	2	W
-	-	2	0	-	27.2	36.04	11.10	2.38	0.0	-	0.5	0.0													
-	-	3	0	-	26.7	36.29	11.08	2.43	0.7	-	0.9	0.5													
-	-	4	0	-	22.9	36.29	11.08	2.44	1.7	-	0.8	0.1													
8/23	1138	1	0	-	29.6	35.43	10.80	2.41	0.7	-	0.4	0.1	0.0	-	-	-	59	B.	5	8,9,3	7	2	SW	2	NW
-	-	2	0	-	29.2	35.37	10.71	2.41	0.7	-	0.4	0.1													
-	-	3	0	-	25.2	35.34	10.80	2.41	1.3	-	0.4	0.1													
-	-	4	0	-	20.5	35.37	10.71	2.41	0.8	-	0.5	0.1													
9/27	1249	1	0	-	28.0	35.81	10.91	2.41	0.8	-	0.4	0.0	2.4	-	-	-	69	B.	3	1,8	7	0	-	0	
-	-	2	0	-	27.7	35.64	10.86	2.41	1.1	-	0.2	0.2													
-	-	3	0	-	27.6	35.68	10.90	2.41	1.0	-	0.5	0.1													
-	-	4	0	-	-	35.68	10.70	2.40	1.2	-	0.3	0.1													
10/11	1238	1	0	-	27.6	35.81	10.64	2.46	1.0	-	0.6	0.3	2.4	-	-	-	59	B.	2	8	7	3	NE	1	NE
-	-	2	0	-	27.5	35.90	10.76	2.46	0.7	-	0.5	0.1													
-	-	3	P	0.0	26.4	35.90	10.80	2.46	1.3	-	0.4	1.0													
-	-	4	P	0.0	-	36.15	10.90	2.47	3.9	-	0.9	0.6													

STATION 27B Depth of 167 feet Lat. 27°35.8' N. Long. 83°50.5' W.

Date	Time	Depth	Gymnodinium breve C	Gymnodinium breve M	°C	Sal	Ca	Alk	Si	Phosphorus PO_4 In	Phosphorus PO_4 Tot	Nitrogen NO_3 NO_2-N	Nitrogen NH_3	Nitrogen Org	Water In	Water Light transm	Water Transp	Water Color	Sky CA	Sky CT	Wind Vi	Wind Amt	Wind Dir	Sea Amt	Sea Dir
1960																									
7/6	1226	1	0	-	29.8	35.93	11.03	2.43	0.9	-	0.4	0.1	0.6	-	-	-	58	B.	6	8	8	2	SW	2	W
-	-	2	0	-	27.5	36.29	11.05	2.44	0.9	-	0.8	0.0													
-	-	3	0	-	25.4	36.35	11.13	2.42	1.0	-	0.3	0.1													
-	-	4	0	-	20.3	36.06	10.84	2.42	2.2	-	0.9	0.4													
8/23	1222	1	0	-	29.6	35.43	10.80	2.42	0.8	-	0.4	0.2	3.5	-	-	-	52	B.	6	3,4,8	7	3	WSW	2	NW
-	-	2	0	-	29.2	35.43	10.73	2.42	0.8	-	0.4	0.2													
-	-	3	0	-	23.9	35.97	10.95	2.43	1.0	-	0.2	0.2													
-	-	4	0	-	19.3	35.43	10.70	2.43	0.9	-	0.4	0.2													
9/27	1338	1	0	-	30.0	35.77	10.90	2.40	1.0	-	0.4	0.5	1.8	-	-	-	65	B.	2	1,8	7	0	-	0	
-	-	2	0	-	27.8	35.71	10.84	2.39	0.8	-	0.3	0.1													
-	-	3	0	-	25.6	36.08	10.85	2.41	2.1	-	0.5	0.0													
-	-	4	0	-	-	35.68	10.75	2.40	0.9	-	0.4	0.1													
10/11	1320	1	0	-	27.5	35.81	10.70	2.46	0.8	-	0.3	0.0	2.4	-	-	-	73	B.	2	8	7	3	NE	1	NE
-	-	2	0	-	27.2	35.77	10.75	2.46	0.8	-	0.6	0.1													
-	-	3	0	-	27.1	35.77	10.71	2.46	0.8	-	0.6	0.4													
-	-	4	0	-	-	36.24	10.95	2.47	3.8	-	0.8	0.4													

MS #1267

GPO 943-606

Created in 1849, the Department of the Interior—America's Department of Natural Resources—is concerned with the management, conservation, and development of the Nation's water, fish, wildlife, mineral, forest, and park and recreational resources. It also has major responsibilities for Indian and Territorial affairs.

As the Nation's principal conservation agency, the Department works to assure that nonrenewable resources are developed and used wisely, that park and recreational resources are conserved for the future, and that renewable resources make their full contribution to the progress, prosperity, and security of the United States—now and in the future.